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PART 1

EVASION

EVASION

INTRODUCTION

- 1. This precis is designed as an eide to Evenion. It does not constitute rules. The necessity to evede in the present day could occur from:
 - e. A breekout from PW Camp.
 - b. A brackout from \boldsymbol{e} emrronmed position in emell numbers or $\boldsymbol{e}\boldsymbol{n}$ individuel.
 - c. As a result of tectical macless strikes and the eventual disorganisation of Corps and divisional boundaries.

MOME MY DAY

- Moves whether of individuals or groups must be planned in advance. Moving by day is incedvisable, but sometimes unassociable i.m. efter a PW breakout or when no extremely long discussee must be covered. If this is the case:
 - e. Put on a bold front, do not oppear "fertive", this erouses ouspicion.
 - b. Obtain unobtrueive clothing and excume a definite identity if poscible, i.e. carry a apade ato.
 - c. Keen clean (shave if nossible).
 - d. Meke nee of a bicycle sed trains. The destination of train is often merked on the bottom left hand corner of trucks. Keep every from stations.
 - e. Rivere are a possible messe of secape, but evoid large once so they will be watched.
 - f. Bewere of children and dogs.

WOME BY MICHT

 90% of evenive moves should be by might. But durkness often bracks over confidence. There will be a composaise between texting the seeiest route end sweiding going where the ensey expect yes. Stady and memorise your route in order to world using hight to say read.

 Never move on roads. If crossing e read, locate emitrine and if eccessry use a diversion. (Cross immediately after a vehicle has passed, soins and light.)

- Never cross bridges. Try improvising refts in order to keep clothing dry, or awis.
- In bills evoid using ridges as you are likely to be ellhounted and remember you can be seen from below for a greater distance than you can see.
 After crossing a skylime change direction on a downwards slope and look behind to see you are not being followed.
 - Keep every from population of any kind. ALEAYS have at least one energency RV. Know how long it will be appe. Then you are making for RV efter eveny contect, sake eare you are not fellowed.

8. Use a leading accost as far forward as possible even when only two men are together.

 Avoid selking in mud, through stunding crops or soy place where obvious tracks will be left. Leaving litter or say signs of occupation in a lying-up area is esking for trouble.

10. Denger Zones. The following points will help evenion in dangerous eross:

a. Cordons. These are relatively many to pass at night. If you watch for up to 2 hours some enemy soldier will give away his position by noise, movement or sormal seatry relief. Once a position is located pass as near to it as you safely come.

b. Cordons will nearly always be oner roads because enemy transport can be quickly deployed off them. This sill not however be the case if the neamy have available helicopters is quantity. If they are heard expect cordons to be in low ground or to use flares from high ground. Para 6 above shoones very isportant.

c. Cross roads issediately after vehicle using light which has passed. These will blind sommy sectrics who seldom, if ever shut their eyes to the light.

d. Initate milhomette of seemy sentrime for on far as possible. In particular beadgear. Learn at least one phrase is his language like "Don't shoot you bloody fool", but you east he able to any it fluently,

LYING UP POSITION (LUP)

11. Selection. Do not use isolated cover, particularly if it is marked on a map. A thick hedge or long grass if after better than small woods.

12. Entry

e. Whenever possible after dark.

b. Be careful not to leave tracks (see pers 11(d)). If possible reorganise position at first light.

13, Siting

e. Concreled from ground and air.

b. If possible only one good approach.

c. Emay encape route.

d. Near water if you intend to wtey more than one day. Otherwise take water in with you during the night.

e. A good location for an LUP would be long grass, vegetation or scrub in an isolated position.

14. Procedure in LUP

e. Keep quiet and still.

b. Have a wentry if in a group of more than two.

- Bury all refuse. c.
 - Kit elways packed and if in posmouning of wespons, clean one at a time.
- Wen always ready to move quickly i.e. compage, rations, mep on body. Weepon at head.
 - Emergency RV must be known and withdrawal route planned.
 - Before evacuating site search for any avoidable trace of occupation, ٠.
 - Snoking must be controlled i.e. smoke showing by day, cigarette end glowing by night.

PARTISANS OS AGENTS

в.

- 15. There ere besically two types of contects as escapes can make:
 - e. An pressided contact after a PW breakout, with prior knowledge of AVa.
 - A chance contact, not previously planned, with a reliable source i.e. a doctor or priest to se seemy occupied area.
- 16. The civilian meant if cought has more to lose than you so after making contact:
 - Make up your mind to treat or distruct him.
 - Ensure RVs are secure sed that you have a drill at them i.e. one man entering before remainder when in a group.
 - c. Do all the agent mays, but never may who previous contact was,
 - d. In the case of 16(b) appears that he is alone before contacting.
 - Have an emergency BV is case comething goes wrong,
- 17. It is the personal determination of the escapes which will ecsure his Compliance with the above principles will only serve to make the took conser.

PART 2

SURVIVAL NAVIGATION

SURVIVAL RAVIGATION

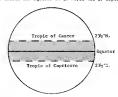
INTRODUCTION

- By Survival Navigation it is meant navigation without the normal wide anch as a compass and map. It should be considered a bonus if, after the earliest stages of capture and searching, one is still left with these navigational side.
- This precise introduces the meteral and ragular functions that surround the world which, although used as the main method of newigation in the past, have been foreotten or the method of using them is simply not known.
 - . The precis is divided into the following asctions:
 - a. The Sua.
 - b. The Stere.
 - c. The Moon.
 - d. Plent Growth.
 - a. The Home-Made Compans.
 - f. Time and Distance.
- 4. It is emphasicad that reading this practic is insufficient end that only by regular observations wherever out of deers will accurate results be gained.

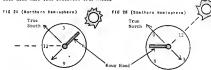
THE SHIP

- It is well known that the our rises in the EAST, sets in the #EST and, enywhere in the Northern Hemisphere, is due SOUTH at mid-day (local time). If one is in the Southern Hemisphere it iedicates NORTH.
 - N.B. As a general rule this is stright but if working in the trepics take note of the san's morement between Cancer and Cepticorn (Fig 1). The sun is overhead Cascer on 22 June, overhead Cepticorn 22 Dec, and overhead the Equator on 21 March and 21 September.

F16 1



- 6. If there is doubt as to whether the eum in NORTH or SOUTH of you a five to teo minute study of the shadons will soon indicate which way the sun is moving.
- NORTH and SOUTH using a watch: This is probably one of the best known methode but, except et mid-day (local time) when it is correct, it should be considered a rough guide only. The following method shows how it should be used. (N.B. Fig 2A and 2B) In the Marthern Hemisphers the watch is held horizontally with the hoor hand pointed at the men. An imaginary line is drawn from the centra of the watch through the 12. True SOUTH is midway between the hour kand and the 12. Is the Southern benisphere the imaginary line through the 12 is pointed at the num but the mid point between the 12 and hour hand this time isdicates true NORTH,

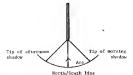


8. EAST/WEST line using the shedows. Place a stick about three feet tall into the ground. The ground should be fine and clear of growth (N.B. Fig 3). Merk the tip of the shedow with a pag or atoms. Wait ten minutes and mark the tip of the shedow again. The straight line joining these two points indicates the E/W line. The EAST/WEST line is correct no metter what latitude or time of dev this is done.



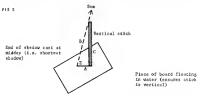
Tip of shadow ten minutes later

The NORTH/SOUTH line oning the shadows at mid-day. Place a stick shout two feet tall into the ground. The eree should be fint and clear of growth. Before noon the mandow should be marked by a pag or stone. Using a piece of etring draw an arc around the hees of the stick the same radius as the shadow. When the shadow again touckee the arc (efteranom) mark with a peg. Divide the angle formed by the base of the stick and the two page and this indicates SOUTH in the Northern Hemisphere and NORTH in the Southern Hemisphere (see Fig 4).



N.B. When the shadow is shortest it will also indicate the NORTH/SOUTH line.

10. Recase are travel is no the increase it may become useful to know your leaking of more first the savin regular movements between CMUTR and CAPRICONN were mentioned. Dy knowing the date it is possible to calculate, very easily, the unit slittly due, To calculate norm's own slitted without instruments or tables, seels drawings would have to be neds in their stend (N.D. Frg. 5, the sum nowes; its leatined 22.023 minutes delily.

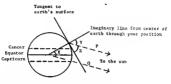


The diagram that should be put so paper (exactly to scale) should be the right angled triangle formed by the sades A, B and C and the angle Z (see Fig 6). Using a home-made pratractor scaure the angle Z.



11. Fig 7 shows the angle that the survivor needs to determine his lutitude. By using besic geometric knowledge this can be echieved as follows:

FIG 7



- A. The Z Z in Fig 7 is the same as that in Fig 6.
- B. Angle Y + Angle Z is 90° so we can find out engle Y.
- C. Because the times P and Q going to the amm are assumed to be parrelled Angle Y = Angle X.

Latitude =

NORTH of the same and our NORTH of Equator.

90" - Z X + sum's averhood latitude H Latitude of observer.

h. NORTH of the num end sum SEMITH of Equator.

90° - Z Z - sua's overhead latitude R = latitude of observer.

c. SOUTH of the aun and aua SOUTH of Equator,

90° • Z Z + aua'a overhead latitude R = latitude of ohnerver.

d. SCHTH of the aux end aum NONTH of Equator.

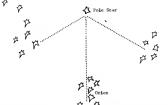
90° + Z Z - aun's overhead latitude B = letitude of observer.

M.B.

- To obtain longitude it is accessary to know Greenwich Weam Time. The sun moves 15° every bour.
- It is emphasized that the observer's position gained by the orthod explained above (even with the utmost carel can only be taken as a rough guide.

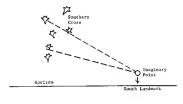
THE STARS

12. Northern Hemisphere: The North Star or Polaria cen be taken as sufficiently accurate for asything the Savvival Navigator may need. It in fact fluctuates about 2°. It can be found by three main methods - The Plough, Cassiopes and Orion (see Fig 8).

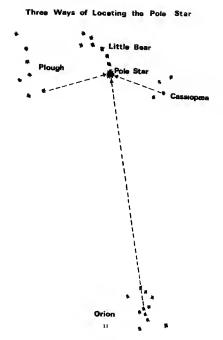


13. The Southern Hemisphere: The first method of finding the SMUTH point on the between its to multiply the longest axis of the SMUTHEN CORSS by 4%. This brings the observer to an imaginary point above the horizon. The SMUTH Lendersk ix immediately below this point. In the second method of finding the imaginary point the two bright stores just to the EAST of the SMUTHENN CORSS may be used as above in Fig 9.

-F14 9



14. Because of the way the earth is continuelly revolving stars seem to swam from EAST to MENT in great error. The way in which stars seem to swam from EAST to MENT in great error. The way in which stars seem to sweeth or the substant of a sectionary relief or two staked drawn into the watch (state the sights of a sectionary relief or two staked drawn into the ground for the purpose and their rups lined my carefully). If a way is to one add or the other or to wish.



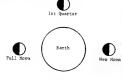
If the Star:

- m. Appears to be RISING you are looking approximately EASI.
- b. Appears to be FALLING you are looking suproximately WEST.
- Appears to be LOOPING FLATLY TOWARDS THE RIGHT you are facing approximately SOUTH.
- Appears to be LOOPING FLATLY TOWARDS THE LEFT you are facing approximately NORTH,

THE MOON

15. It is well known that the MONN changes ahape and ranges from being a full circle, through all portions of a circle, to unthing at all. Fig. 10 shows the reason for this. When the WONN is on the same rade of the world as the MONN the wholed and as a facing the EARTH. When the MONN is on the appoint saide, the saide alluminated by the SEN is vasible from the LAMIDL as a complete circle. Viewed from the EARTH, the MONN looks that a west-tricle at the first and has quarters. This regular movement and appearance can be said as a guide by the averaged.

FIG IC

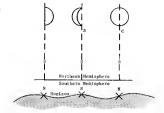


last Quarter



- 16. The illuminated side is always measest the sum therefore:
 - If the moon rises before the sun sets the illuminated side will be on the WEST.
 - b. If the moon rises some time after the sun sets the illuminated aids will be on the EAST.
 - If the moon rises at the same time as the ann sets it will be a full moon and the method of using this is below.

17. (See Fig 11). The very approximate NORTH/SOUTH line can be seen by joining the horns of an incomplete moon. Fig 11 shows a variety of shapes the moon may be and the way in which the horns are used.



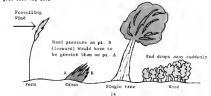
18. When the moon is a full circle or a half circle it is possible to tell the direction provided local time is known.

	Local Tr	ma - 1800	2100	2359	0300	0600
Firet	Quarter	s	Sw		-	-
Full M	oon	E	SE	s	S#	*
Last 0	warter	_		E.	SF	9

N.B. The directions should be taken as a guide only.

PLANT GROWTH

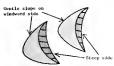
19. Both the wind and the sum effect the growth of plant life. The noise causal observe has noticed windseep trans in a separed places and has realized that their exposerance clearly above dominant wind direction. The praveiling wind changes from place to place but in Emgland it as Sh and nM Europa (the low constrain) it is NN. The wind will also affect the growth of grams, forms and so ne but it is only with practice that the constraint and the property of the property of



B. Formation of sand dunes

FIG 13 A. Sand tails formed behind small plants & bushes





20. In the desert or dry, dusty areas it will be found that a med dunes and analytic (Fig. 13) will give an indirection of the prevailing wind. They can easily be changed by a long hard wind from another direction so check the indirection if possible.

21. It is emphasized that to become good or telling direction from plant growth requires continuous practies. Never should the evidence of one plant or tree be taken. It is the general impression that the managator must look for.

22. The sum slaw grantly affects plant growth but, whereas the indication from sind will be most noticeable in on anyoned position and where wand direction as wellkely, the sum of influence will be most obtained in a sublatered spot valley), the sum's influence will be most obtained in a sublatered spot of the sum's sum

23. In the Northern Henisphere, if the rings of a tree are examined (Fig. 14), it will be found that the rings or a closest together on the SOUTH SIDE, the sunnisest side. Stretch marks in the hark are also most noticeable on the numniest side. Mose is so overalishle golde although it is commonly thought to grow meanly on the dempet side of a tree.

F16 14









South 5 Ide

THE HOME MADE COMPASS

24. The home-nede compass consists of a magnetised points - a needle, neal, pin, rezor blade or similar piace of matel - and something by which to suspend the pointer.

25. The points can be negnetized by being stroked with a magnet or piece of silk. It is adviseable to 'top up' these magestised properties every for If the stroking is towards the point, the point of the needle would indicate NORTH.

FIG 15



26. A piece of metal can be magnetised by coiling a piece of insulated wire (copper preferably) and then attaching each and to the terminals of a bettery (see Fig 16).

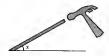
F10 16



M.B. The wire must be insulated from the bar to be magnetised by either paper or than cardboard, or the wire itself could be insulated. The voltage to magnetise a needle could be se little as 2 volta.

27. It is also possible to magnetice metal by tapping it sharply with a honner (see Fig 17). The metal bar or neil must be sligned with the carth's magnetic field, i.e. pointing magnetic NORTH/magnetic SOUTH and the raised and should be pointing magnetic SOUTH when is the Northern Hemisphere and magnetic NORTH when in the Southers Hemisphers. Unfortunately the angle X veries. In England it is 680 and veries between 620 and 800 throughout Europe. The angle X should be as accurate as possible when the har is struck but it would probably be magnetised if as much as 10° either side. Because of this the Survival Navigator will probably be able to make his magnet by trial and error. The engle X is the angle at which the magnetic field enters the earth's surface.

F1G 17



28. The magnetized pointer can be managemeded in water (manag gramm, bark, or paper as a float) or it could be disagled on a piece of cotton (VOI very accurate). If time is available a home-made base and pavot could be madramable to Fize 18.

FIG IR



TIME AND DISTANCE

29. It is retail that, not only direction in known to the Surveys Narigain, hat is no this distance he travels. Veriations of ground, weather conditions and load certaid are ground to affect speed of movement. The following table gives a guide but it is as well for each spatialisation. He following table title under the verious enablitions. Currying againsent and noting across counter the following distances would problemly be covered.

٠.	MIGHT CLOUD	NO MOON	CLOSE CHUADRA (AR)	1986 metres
ь.	ALCHE CYCOD	NO MOON	OPEN GOUNTRY (NO EUROPE)	2000 metres
с.	NIGHT CLOUD	FULL MOON	CLOSE COUNTRY (IIK)	3000 urtres
d.	DAY WIST/NIGHT/CLEAR HILLY COUNTRY			2500 metres

CONCLUSIONS

- 30. This precis has ettempted to introduce a variety of methods of determining direction. Particular note should be used of those methods which are accurate mod those which are only guides.
- 31. Wherever possible the Survival Navigatos should check one method off against the other and in the case of plant growth the evidence of one plant or tree should never be taken always a selection (the nore the better).
- 32. Practice at natural manigation is essential to becoming really good. However, even the complete beginner meed sever be lost provided he knows and understands the basic facts.

 The Indians of NORTH AMERICA used all possible indications in the forest, A sussionery, Pare Joseph Francois Lafitam wrote in 1724;

"The savages pay great heed to their atar compass in the woods and wast prairies of the continent, as well as the rivers whose courses are well known to them. But when the star or sun is not visible they have a compass in the trace of the forest.

The bork is dull and dark on the MOHTM side. If they wish to be sure they give the tree s few cats with an axe, the tree riags are thicker on the MOHTM side and this on the SOUTH side."

PART 3 IMPROVISATION AND ESCAPE KIT

INPROVISATION AND ESCAPE KIT

INTRODUCTION

This precise may gave the students aims ideas on the improvising of equipment for tax an excepting capture and surviving in the field. Improvisation is obviously a case of percoast lightative and lengtly dependent on time. The ideas put forward in this paper are to attend the thought on the subject.

CLOTHING

- 2. This is particularly important in cold climates and when long distances are involved. The clothing used in PW camps will invariably be of a set pattern, which would immediately identify the exceptes and also in likely to be insufficient to withstand the elements in a cold climate. Below are listed your ideas?
 - a. \underline{Skins} . If time permits trap local snimals, dry skins over fire and saw into jacket.
 - b. Pecs. A very adequate set of clothing can be obtained by cutting up para silk. In cold climates covered layers will be required.
 - c. Secking. By cutting holes is the top of a sack s jacket can very quickly be made. Hessias would elso sarve the same purposa.
 - d. Foolwear. This is perhaps the most important as it suffers the most. Old rubber tyres are useful for the bottoms and a rope used in sandal fashins would be sufficient. Layers of canvas out from a tarpaulin could also be used.
 - Canvag. From an old tarpaulin or webbing from a para harnass one could make a pack, pouches ar a belc.
 - f. Pars. A very good hammock or alceping bag can be made from the panels of a pars.

EQUIPMENT

- It is always surprising to lind how dependent one is on esting stemsile, ness time or any of the usual equipment. Below are listed some ideas on the improvisation?
 - a. Needleg. A comparatively easy thing to improvise e.g. nails, fine needles, old wire or poseibly a piece of hard wood absorpened to a point.
 - b. Exting utensite. It is possible to make a very adequate mean fin and ont of old time. Also a cookur from a mold tim can and a spoon can quite easily be carred from a bard piece of wood.
 - c. Nood cutting instrument. By using the new system a tenon saw and a drill can be manulactured. As old kitchen knife makes quite a reasonable saw sut teeth filed as it. An axa is rather more difficult, but possible if a saitable flimt can be found and teshed to a strong stake.
 - d. Hanting. Traps and smares are relatively easily made, but their siting is a matter of experience. Speare (prehiatoric) and bows and arrows can be very successful. The thread out of para cord will make quite a reasonable lishing line.

FIRE LIGHTING

- 4. This is a such talked shout subject. Rozever aven the experts are singularly unsuccessful. A notable professor has only achieved fire form natural resources twice. The following implements could be used:
 - a. Tinder, dry rotten wood dry regs, brackeo.
 - b. Magnifying glass. Lens of binoculars are quite good.
 - c. Flint and steel.

Hard sood rotated on acft - this is extremely difficult and taken s very long time.

BECAPE KIT

- 5. This is equipment carried on the person and is particularly applicable to amm norticing behind easny lines. It aust be very well bidden. Encape hit bidden in the clothing will probably be only of use to the categors on immediate capture, whose be still retain his own clothing. To stead only chance of retaining hit for the PM Casp it not be hidden in the natural crevices of the body s.g. mouth etc. The items of hit case be broken down under two headings:
 - s. Kit to help encapes.
 - b. Kit for use in newigetion etc., having once ecceped.
 - . Below erm lieted a few suggested items of eacape kit?
 - e. Compaes.
 - b. Sas knife or thin cord saw.
 - c. Escape map.
 - d. Metches in wax.
 - s. Pack of carda (sith map in betwees levere).
 - f. Pare cord, acring or gut (bootleces).
 - g. Watch.

 Below are liated some places shere hat could be hidden other than on the maked body:

- s. Seems and linings of cluthing.
 - b. Io the fake heal of a boot.
 - c. Threaded through the draw cord of a jacket.
 - d. False pockets.

8. All the items above will assist in the amoness of an escapee, they will depend for their remaining undiscovered on their originality and therefore, as sith the improvised supposent, on the intitative of the man havelf.

PART 4

CONTACTING AGENTS AND USE OF ESCAPE LINES

CONTACTING AGENT AND USE OF ESCAPE LINES

INTRODUCTION

While it is the responsibility of an eveder to help bisself, be may
obtain some assistance from the Resistance Morements. If he is not given an
NY to meat we again he will have to swell context himself. It is important
that it he realised that where was it is an except limit to the lives of anny
other people hang on his coedent. This presist latts man of the outlint for

CONTACTING AN AGENT

- There are two weys of meking contect with an egent.
 - a. Chance Contact. This wall come shout by you being passed on to an egant by a fixed of bis or you got a contact as a contact a contact and contact a co

b. Pre arranged RV. When contecting an agent at a pre-erranged RV the following drill should be used:

(1) Before Contact

Arrive new the RW by night before contact is to be made. Spend the next day in e its up position next the RW end keep at under ecretisy to ansure that it is not embushed. Hearing decide the RW uppears seek one men should sower closes at the dusk fails to some that the samen do not place at solved with the dusk. The Wastil spapering seef this one men makes with circle of the RW and finally closes in on it is ever decreasing circles. This will the RW.

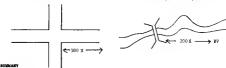
(2) On Contact

Having arrived at the HV seed mat the agent, identity should be catchlished. The agent is likely to sak you seed statl about life in England so se to confirm your identity. Unless there is a pre-orranged personed the decision se to whather to trust the agent must be made on the spot by the eveder.

(3) After Contact

Having decided to trust the egant it is vited that the avadaria, should do exectly see seaks. Hemasher he knows the country, the people, the aneay locations and all other local knowledge. On NO eccount however should the agent be given any military information, Indead if he parasite in whise military information he abould be regarded with amplicion. If it was time you decide that you cannot trust your agent, a clean break must be made at the market apportunity after your decisions.

- RVs should normally be sited on a Road Line, River Line, coast line, 3. tree line etc. This will enable on eveder who purhaps has inadequate nevigetion equipment to bit the lime well to one side of the RV and then welk up the line until he hite the RV.
 - RVs should be near (* few headred yards) but NOT on prominent points,



- Finelly a few tipe on contecting people is occupied territory.
 - Nover make rootect by day unless upermidable.
 - ь. Renember there may be a curfee et micht.
 - If you contect a person by day apaura so one also sees you do it. end do not expect the person to extend to you entil efter derk.
 - The Local Doctoreed Priest in friendly eress are useful initial contects.
 - Remember strengers always eroses suspicion and will be talked about if even.
 - Be patient end remember if cought you merely go back to prizon.
 - If an eyent is cought he end his family may be tertured and executed.

ESCAPE LINES

You will be peased into an escape lise or 'Ret' line by an agent or by the friand of an egent. A good Bat live is a highly organized piece of mechinery with financial becking and with many people running a considerable rick. These prople will be doing the job for petriotic or political reseone and will expect no payment other than the explicit chedience of the eveder. lodged once you are in an Escape lime you will merely become a percel to be passed from safe house to safe house.

RAT LINE DRILL

- Once you are fortunate emough to have got into a Bet line there are several things to be considered,
 - Mere again the decision lies with the individual as to whether he will trust the Focope line.

- b. Barrion. Many people will be using the sawr lane and it will only be capable of handling so neary per week. Therafore its likely that there will be long delays when the avendr is confined to where or building. Further delays may be essented by part of the lime being bubbled, and the same of the lime to be the same and the limit. It is vital that the pranear/warder gas out for exercise by day. Also there will be a considerable tempetation to leave the flat line and make your own way. This is a print example of "more heats leas apped" as the chances of
- c. Physical Fitness. In World Far II evaders covered hundreds of mules an a Rat I men only to be left on the monstain side near the Spanish horder as they were too mafit to complete the climb. An evader must keep fit from the start, in the PF comp when lying up and in Safe houses, It is possible to de PT in wary confisced space if it is necessary.
- d. <u>Emergency Exit</u>. Immediately as Evnder in ladged in a safe house he must record and lay on an mangancy axit which is quite separate to the normal axit to the huidlang.
- a. <u>Guidea</u>. Shea under charge of a guide him orders must be followed implicitly. Normally you should maker talk to him or appear to know him when other people are present.
- f. Sacurity. On NO account should any writter account or narked rap be kept of your journey. If captared this could bubble the whole line to the enemy. Likewise don't sak agents may unpaceasary questions. If you are recaptured 'don't keow, cao't tell' is the eafast mans of resisting interrogation.

GENERAL HINTE

- a. Bewere of fellow travallers and atragers, make use of gimmicks to avoid your falling into conversation i.s. Deaf and Dumb, reading a paper, looking yourself in the train lavatory, sleeping.
 - b. Don't whistle or hum tunes from your perent country.
 - c. Don't use or display any public articles of British Manufacture.
 - d. Study the castoms of the country. If people helch loudly and wipe their mouths on the table cloth after a meal thee do likewise. Watch how they leave the knife and fork on the plate etc.

INTELLIGENCE AND SABOTAGE

8. It is not an ewder's job to collect intelligence but provided it does not josperdate his ratio aim and providing be writen nothing down he should take note of anything that may be of use when he finally arraves home. Sobutes it is salitied and musually highly organized past time requiring the provided of the provided by the provided provided by the provided to carry out substage and even if he dust do some ninor abbetses he as likely to frustrate the local effort by alerting the musty.

CLOTRING

 Providing the evader beeps some item of military emiform and does not deny ha in a military person, if he is recaptured he etacks a very good chance of beans treated as a PS.

CONCLUSIONS

10. The advice in this precis is based on common sense. The successful areder must be detarmined, and of the right attitude of mind if he is to succeed and has ain must be to return base to fight again.

SUCCESSFUL EVASION IS ACRIEVED BY DETERMINATION

PART 5

DOG EVASION

DOG EVASION

INTRODUCTION

It is difficult to produce information regarding dog evasion without waited the challed largon and masses of estimates. Psychologically such verbage helps boost the morale of the mitter but does lattle to help treeder, and in perticular, the student of ownsion. These cotes are therefore prepared to help the mon-technical and are written accordingly:

Men has used the dog for military purposes for thousands of years. The Egyptians, Huns. Romans, all roworted to the use of Guard and Tracker dogs and no doubt the evesion textice employed thee here changed very little. Henry VIII provided Spain mith large attack dogs, mearing spiked collers, to fight the fracch.

The swellability of chemical side is limited. Bith the current trend of intercet shown by meny Governments, some progress will be made in this field, but as in all research, ficence, sed morn preseing needs must take precedence.

It is also possible to produce chmalcal sids for the headler and his dog to overcome evenure eide. The result could be the sweetwe sid becoming a baccon for the dog to home on.

These very general natus are therefore written for the guidence of personnel who find it necessary to evade working dogs and in so doing have no chemical side available.

If you are supplied with such chemical or machanical side, use them as an addition to your evesion technique and not as a replacement.

The dog used for Militery porposes must coeform to certain requirements, irrespective of its breed. Those can be summed up as follows:-

Physical

Height in shoulder 22 to 26 inches Weight verying from 45 lbs to 100 lbs plus Spend in excess of 25 miles per hour

Temperament

Intelligent, Conregeous, Feithful, Adeptable, Energetic,

There are many breeds having these requirements, such se Alsation, Dobermann, Pinacher, Rottweiler, Mastiff, Boxar, Callie, Groenendeel, Schmanzer (Giant), Labrador etc.

The breed of dog employed at a particular base may be varied to suit the climetic conditions under which it will work. Humidity end temperature being the main factors involved.

SIGHT

The dog relies very little on eight doring its day to dey scrivities. Its strention ie, however, drawm by movement end if it's interest is roused, will follow up with hearing and nome.

Dogs have nonochroms vision, with a limited depth of field. There eppear to be srees at certain distances where focus varies. As in humaus, vision varies from dog to dog, es does the isclimation to use sight.

At night the dog is able to detect movement, due mainly to see low position looking up at the skylime. It makes more use of what light is swilable.

SOUND

With a range of bearing twice that of humans, the dog is attracted by noise not received by the handler. Beware of equipment rubbing together, radio equipment, bereers, etc. The distance at which received is very much affected by weather, in particular wind and raim. Obey the rules of approach from down with

logs used for military purposes are divided into two basic groups. Those which rely on scent carried in the air and those who rely on scenc held on the ground,

The very besic division is applicable sminly to training and there is no doubt that an experienced dog in sither field will naturally progress from one seem to sures to smother when the ared and the interest is great enough.

However, the division into these two groups is sufficient for evasion purposes. Many rules apply to both. Bear in mind that there can be great variations in requirement from types of dogs for instance - using air scent e.g. Gurd, Defence and Search. The same will apply to those using ground recover.

SCENT

The dop's sense of smell is many thousands greater than our own. Through it's olfsterey organs it has the shilty to detect a source of secur, either by following air currents, or tracks left on the ground. This neutral shilty to bank has been controlled by man, and the sarch and tracker dogs have swarged. These dogs must have the physical capability of following such tracks for many oiler.

Human scent from a ${\tt dog}{'s}$ point of view is a combination of smella from many sources.

BODY SCENT

The smell of the human body, made up of 'body odour' produced in abundance by the swent glands, in particular under the arms, legs, etc. This particular odour is increased by rapid movement, nervousness tenaion, various types of food and unclessibless.

To this odour, we must add the following:

Clothing, decolorants, toiletry, abos leather, polish, chemical aids if used os clothing, environment (Petrol, oil, timber, etc.), and many other that the human may have been in contact with.

Bace and creed play a part is the individual definition of a particular acent.

The amount of total hody accost, produced is greatly affected by constitution, activity sod mental state.

It therefore follows, that in many respects you can control your flow of body scent. Keep cool, calm and more with confidence.

GROUND SCENT

Body scent deposited by the soles of the feet, plus body scent drifting does, but mainly ground disturbance caused by the seight of the man or the ground.

This contact of the foot produces scent from the following sources. Crushed vegetation, insects, deposits from shows. The breaking of the surface allowing gas and moisture to sucepe. All these acents added together produce the main acent for the tracking dog.

Airborne scent is soon disperaed leaving the dog with the ground scent only. An experienced tracking dog ess follow this scent up to forty eight hours afterwards, is wirgin, hundid territory.

The trained tracker dog can find the discettor of the track. This is possible because of the purchase of the foot. The toe part of the impression is deeper, and remains in contact longer. After examication of several foot contacts the dog can follow the track is the correct direction,

Because of the natural evaporation taking place on the surface, with variation in noisters and gas movement, the heat contact of each track varies from minute to wantes. This variesion together with the deposited body scent makes every track different. It is this variation and the shifty of the dog to compute through the officerry system the basis of such track the set of age when the set individual scent, see who many other

THE TRACKING DOG

The following will give an evader aufficient datail to make a good stimpt at tracker dog evasion. As no to dags react in the same way to a given sat of circumatences, we can only generalise. It is for this reason that the notes are in three groups,

- Before contact with enemy
- 2. Contact from a distance
- 3. Close contact

Theas headings are for convenience only, and any of the acts given one be applied to each quite successfully.

1. Before any contact is made with the Enemy

a. Associate oscself as much as possible with the surroundings. The rules of physical camesflage should also apply to personal acent. Keep in with the surroundings. Alies aconts attrack the dog.

b. Travel over ground stready used by humans or saimals.

c. When travelling is groups split up every non sed thee. This need be for only a short distrace, but will be anfficient to alow the dog down.

d. When preparing food, take cars as to direction of smoke and funes, thandle vapper and containers as little as possible. When burying, do not handle the ground, use metal instrument. If possible, sink in deep water.

- e. When enters or leaving L.U.P's, do so from different directions. Make falso trails round parimeter of L.U.P.
- Follow to the side of smims! tracks, thoraby leaving no footprints.
- Contact from a distance Viewel contact or dog locating track
 - Spend and distance. Tire the dog, destroy handler's confidence.
 - If in group, arrange R.V. Split sp.
 - c. Vary surface and terrain. Where possible use metalled surfaces, cross and re-cross at intervals.
 - d. Pass through fields which costsin, or have costsined, sninsls.
 - e. When travelling through woods, scrub or brash, change direction frequently. Beneabor deg will usually he on a line. This becomes easily tangled, and will alow ar stop dog for a time.
 - f. If possible cross streams etc. Walk slong streams for short distance and make false exit and entry points. Walking too far in water will slow own programs too much.
 - g. Take any step which slow dog without further ondangering self e.g. false trails, use of roads, satty into willeges.
 - 3, Closm contact . Dog is position to be released and able to attack,
 - e. Get out of sight of handler
 - b. Change direction
 - c. Use metalled, stone, rough surfaces
 - d, Pass through snimals
 - e. Clear obstacles

 f. Shed articles of cluthing food etc., any scientific sids
 - g. Wherever possible try to part handler from dog.
 - h. If dog catches ap with patral . milest destruction, using tactics as for guard dog.

There are wany factors which affect scent, and a dogs scenting capabilities. These factors can best be summarized as follows:-

Favourable - Moist ground conditions
Vegetation, grass form, etc.
Porest cress
Light rein, mint, fog
Slow moving quarry
Cuarry carrying heavy burden
Across quarry - macess perspiration
Light wind persons on the more
Still, sturgid extr., i.e. swamp

Unfavourable - Arrid

No regetation
Metalled aurifaces, savid, stoms
Animal scents, tracks
Motor, factory, pollution
Datt, set. irritating to dogs nose
Quarry continently taking avasiva stops
resulting in bandler losing confidence in dog.
Gell Force side

THE GUARD DOG

Ice. stoy, sater

The larger breeds of day are used for this purpose. The first objective bears to chees and attack. It must have the courage, and physical capability to fulfil the objective. It is earful to have that various mathded of training are employed throughout the sorted, varying from compulsion to ravulation. It respective of training sheigh, the end product is hair - Attack and Data.

The guerd dog is operated in two ways; with a handler on loash or roming free in a compound. Whichever method is employed, the dog will rely primerily on its hearing and acenting shilty to detect intruders. It's eight, being less drawloped, wall he used as an auxilitiery detection, the dog being drawn to a particular area by movement.

After detecting an introder, the dog will operate on command of the handler or on situation stimules. The handler command is rormel, but the situation attendies is where a dog is released into a compound and will attack any pareon entering, where these a knows gard or collection valuicle. Some dogs are we trained that any pareon is attacked, it being nacessary to relate the state of the state

In either case the dog mill retein its grip on its quarry until ordered to leave. In the case of highly aggressive dage, strict compulaion may be necessary.

It is this courage and shillty of the dog that makes it vulnerable to the intruder. Pad oneself as described below, encourage the dog to attack, biting in a place that you dictate. Present a target to the dog, thereby placing it in a position in shich it can he immobilised or destroyed.

Adequate protection can be had from wrapping result the arm any of the following, sebbing belt, leggings, riffs aling, ponchos, arepaping from equipment, accaves, headgeer. Alarya have a layer of after material inside and outside your main protection. The innar layer to take some of the pressure, the outer to give the dog nosething to grip out.

The dog is far less dangerous if it makes firm contact on the first run in. If it falls off or is deterred, it will look for an elternative target and then begin to dictate the situation to you.

Throughout its training the dog has always been allowed to succeed, it is this inhualt confidence is its own ability that encourages the dog to overcome every obstacle. Sive it the appearantly to succeed and then destroy. It is most voluntable where gripping targets.

Remember a dog deterred will bork or growl, drawing the attention of the guards.

- To avoid initial detection, obey the following simple rules --
- 1. Always approach from down wind.
- 2. As silently as possible.
- 3. Ensure you cover the last part of the joursey as glowly as possible thereby cutting down excretion of bedy odour.
- 4. Keep all garments securaly fastened. Where a draw cord is fitted. keep it tied.
- If you have to stop for any reason before entering the perimeter do so outside the 200 meter mark. Within this distance dogs have detected introders travelling against the wind so well so with the sir flow.
- Keep as low as possible, use astural hollows. The air scent will be obstructed by undergrowth or barriers.
- Be aware of changes in scent direction caused by barriers, 1.c. sround buildings.
- 8. Approach from an area where you know other humans operate in, or approach from. The dog pays less attention to areas where it expects there to be persons or vehicles. It may be attracted, but under some circumstances, this identification will be misinterpreted by the handler, When within the perimeter fence, remember, the dog relies muchly on
- aound and acent. Its attention will be drawn by movement. If you are down wind and the dog is passing, keep still. Guards have passed within 10 yards without being attracted. 10. The average guard dog will have difficulty in detecting persons up
- high. If they do, they have difficulty in pinpointing location. This delsy will give you time to operate.

DESTRUCTION

٩.

The destruction of a trained dog is by no meson a simple matter. The situation is made more difficult for the evader, by the necessity for allenge, or at least a degree of oniet.

It is often easier to take the dog and immobilise, by either tying to a secure fitting, or binding the front legs. Always suarle, and if possible render it inopperable, example, breaking a leg-

- Actual destruction may be by any of the following: -
- Stab through abdomen, simmag from rear to front-
- 2. Stackage pointed stick, apear into abdones
- ٦. Severe blow to skull
- 4. Shooting through skull, siming above, and is centre of line drawn diagonally from ear to eye.
- 5. Shooting through back
- 6. Chop at back of neck just before shoolders 30

Whichever method is decided appea, supreme physical effort must be exerted. The dops skeletal system is such that it is virtually armour plated. Go for the soft spots, the abdomen, or the point beneath the chin, and above the breast bone.

THE SEARCH DOG

This dog, trained to quarter an area, with minimum command. On location of an intruder, to give tongoe, or return and collect handler and patrol.

Relies mainly on locating source of air borne accet, Make surs that you keep that source as essell as possible,

When in an L.U.P. observe the following: -

- 1. Keep as close to the ground as possible.
- Have the majority of cluthing over you, let the earth sheart the scent.
- 3. Brooth down into the ground, or at least into los vegatation.
- 4. Keep still.
- If burying items, do so undermeeth your lying point, all smelle kept down by body and covering.
- Restrict enoking, first, etc. Dogs abilst assrching are drawn by any alien scent.
- This type of dog is more inclined to circle and hark, or collect handler. Depart when possible and use normal avasion techniques.
- In all circumstances if located, and ascape not possible, catched destroy.

Menceber always, that the dog, he it guard, saarch or tracking, a relatant on command from a headler. These commands may he by voice, wheall or hand sagned. They may not be continuous, or obvious, but are always messaway. It is this relatance of the dag on the human that makes an opening for the evader. Part them, and the dag begins to lose confidence, they are always and sand startly at seaso of security in

Always sin to: -

- m. Destroy the confidence of the hendler is his dog.
- h. The confidence of the dog in the hendler.
- Confidence to themselves.

CONCLUSTON.

There are many and varied opinions regarding evasion. This state of Uncertainty is die missibly to the very limited amount of proven information we have of the dogs interpretation of scent, and it's ability to distinguish bettern seen. As humans we tend to buse all theories on our own stendards, thus expecting the dog to live up to our requirements.

The dog does not have the capability to penetrate the human mind, sithough there may be a transference of fasilog. We, on the other head, can study the psychological qualities of the dog, and understand him. In so doing, decover his mackeness, and his wilnership points.

PART 6 WILD FOODS

WILD FOOD

"Thou shalt regard Nature sa thy friend, drawing thy wasts from its houstiful store". SIXTH Commandment for Survivors in the NZ bush.

INTRODUCTION

The Joint Service Directive on Combat Servival states that tracing about the given on the techniques of scapes and rwazion. If 's solder is to accept successfully he will aimout certainly need food. He may cet have the opportunity to behin it, or to awar in the Microse accept. To steal food from from, or houses will, is many countries, be impossible and it is, in the or to ideatify any which the his cellular.

WILD PLANTS

2. In less preservous countries, personn folk mes able to find many things growing with that we in the Pittish Bales with our approximate, good roads and railways have long are forgetten shout. Findam, powraty and pinnersian oully se most know what to look for. This preserve are controlled places and other things that are comeon in Britain. It should be souted that this wild food will lie be fixed in many of the temporate regions of the preserve of the state of the preserve of the state of the preserve of the preserve

FUNGI

3. We in British are not a forej eating maxime. Newhrones are cake, but most of them have been cultivesed and are as a result of por contributed value. On the continues and electron in the world, perficularly in the East, a great variety of forej are collected and solid in nerhets. Abread some are newedyst timod, Precise dried and packaged for sale. It is often auggested that fragin have little, or no food value. This is not in fact true and to show their true value the following street from 'Britain's true and to show their true value the following street from 'Britain's croated:

NUTRITIONAL VALUE OF FUNGI

Proteins, Fatt and Carbohydrates. Bith regard to their chemical composition and their nutritional value, funciar usually compared to vegetables, but in fact their occepy a positions between set and vegetables. They costice more protein than vegetables a though and part of the protein as digartible near protein than vegetables. They cost of the protein as digartible lowest is fats. The compositions of Boletis, Manhorom, Mill Scpand.
Chaiteralles compared to various types of meat and to six of the nost popular vegetables, make the proportion quite clarm (see Table 1 statched). A table is quoted from a Name book, to demonstrate this point, as very little work seems to have been done on wild fingli in this country or is America. Food values of Monhomos are he found in many books, but the nubroom is not referred.

Calories. The quentity of selection supplied by lkg (2,2 lb) of Roteros redules, Wilk Cape, Chasterelles and sultrated Maskrooms in ever windles to that supplied by the assequentities of vegetables. Again Bolets apply more calories than the other fuggi or other vegetables (see table 2 uttebrds). The calories or fuel value of Boleti can be best compared to the fuel value of carrots.

Einerais. The unteral value of fungi is also near to the nineral value of regetables. Mushrooms have more phosphorus that carrots, cabbage, calliflower, aguach; they are rather poor in eachies. This can be seen from the comparison of the mineral elements of Mushrooms with the vegetables mentioned above (see table 3).

Vitamin. There is some vitamin entest in fough, but down on vitames are wild fungs. Traces of vitamin ser found in quarte as appreciable quantity in classification. Traces of vitamin ser found in quarter and the property of the property o

Holetue edulis	contein	83	Iat	Un	Vát	D	per	100	gr
Chanteralles	contain	83	•	•	•	•			
Mushrooms grown in the light	contein	63	٠	٠	*	٠		٧	٠
Mushrooms grown in the dark	contein	21		٠	•	٧	٠	٧	
Gyromatre esculente or Helvella crampa	contein	125	•	•	٠	v		•	•

"Unquote"

- Shown in the lists of edible fengi ere the good, or excellent mushrooms for esting that are common in Britain and which are of course found in many
- 6. There are many popular balliefs about ways of identifying poisonous fungi. It is agreed opinion of all sutherlites on this subject to-day that THERM REW ORLIMATE MAND AND FAST MELES TO GO BY. There is a popular behind that if an online, some specific, a silver spone or a suppose are cooked with Assentia Fasilockies (the most deadly of appreciat, however, when contend with Assentia Fasilockies (the most deadly of planeaus Company).
 - Learn to recognize a smell number of the important edible fangi and forget and not touch any of those which are not in this small range.
 - b. Never pick any fungue which has get mbite gills,

other parts of the world.

- c. Learn the characteristic formation of the Amanita family. Almost all fatelities from fungus esting have occurred from esting members of this family (see diagram statched).
- 7. To an except, fungi sre us investable source of food. This the German Army discovered when on the ram in East Africa during the First World War when they lived off fungi. More recently there have been examples of Gurkhas fanding fungi as Bornes and Muleys of smilts type to those that they

est in Nepel. Even in Arshie fangi have provided sustenance se witnessed by Wilfrod Thesiger after he had crossed the Empty Quarter:

'The evening before we reached Burnins I was lying contentedly on the ground watching bin Kabins resetting some toudstools that be had found while herding the canels. There were also truffles here which were even better'.

(Extract from Arshams Sanda)

CRAWFER

- 8. Excepts may find themselves along a constline; they might in fact muke for one to obtain a bost to make good their secess. They should therefore know that no research is poissons and that some found between the high tide mark and the lock tide mark are sublise and meritions. It is rich in mark and the lock tide mark are sublised market times. It is rich in only from plants are selected as it spails quick when collecting it that only from plants are selected as it spails quickly when left required out of the exter for any length of time.
- 9. Small quantities of seased art is fact contained in leacters, jully, blancanages, Australiac timed matat, timed her and one source. Perplay is sold as laverbread is many markets all over South Wales and it can even be purchased in Hereford. In Praised, Caragabea, or "light Mores' is collected and sold for consumption and in Scotland, Dulme is sold in Aberdeen and other markets again for UK consemption. In Canado Dales is sold in place of tobacco as a "Cana" and daring the Italian Carpaign, some Kiblic Actual tit to Televist and daring the Italian Carpaign, some Kiblic Actual tit to Televist sold time.

TREES, BARKS AND NUTS

- 10. Although the outer bark of tress should ever he esten owing to the large smooth of transip present, the inser bark mark to the smood of any tree may be asken raw, or cooked. The inser bark of PINE trees is highly mortificus and contains large questities of Vitami C. The inner bark of BEGOI trees is also nutratious, perticularly is Spring when it is neally formed.
- 11. Apart from the common Sweet Chastaut, Hearl and Welnuts, the Acora and the Beechnut can be used to provide courishment for an escaper. Then again, the leaves of some trees are adible sed others can be used to make too. For details not like 4.

CONCLUSION

availability. The arms in which the escaper may have to enzyre in, may be deficient of wild life, or he may be imjured, or caheseted and incepsible of making the sustained efforts required to capture mains if foods. There are however, very few places where on escaper who has taken the trouble to study this facinthin swheet, has not hesefitted.

BIBLIOGRAPHY

13. "Wild Foods of Britmin" By Jamon Hill (Faher & Faber 1939)

12. Plant foods have one great advantage over enimal foods, namely

"Wild Funds of Great Britais" By D.C.B. Cancron, 1917
"Britain's Wild Larder, Fongi" By Claire Lovenfeld

n's Wild Larder, Fongi" By Claire Lowenfeld (Faber & Faber) "Britain's Wild Larder, Nata"

"Edible Wild Plente" "The Survival Book"

By Claire Lowenfeld (Faber & Faber)

By O.P. Medsger (Macmillan Co., New York)

Neasbitt, Pond, Allen (Van Nostraund Co., New York)

TABLE 1

Chemical Composition of Fungi compared with the Chemical Composition of ment and vegetables.

	Water	Protein	Fet	Cerbo	Rev	Ash	V ₁ t	Vit	Vit
	*	*	*	Hyd %	Fibre %	%	A %	B %	%
Beef (Medium)	72	21	5.5	0.5	0	1			
Veal (Fst)	72	19	7.5	0.1	0	1.4		٠	
Pork	47.5	14.5	37.25	0	0	0.75		•	
Kidneye	75.5	18.5	4.5	0.4	0	1.1	••	••	
Liver	71.5	20	3.5	3.5	0	1.5	•••	•••	
Cod	81.5	17	0.25	0	0	1.25	••	••	
Bolstus edulis	87.13	5.39	0.40	5.12	1.01	0.45		•	
Mustrooms	89.70	4.88	0.20	3.57	0.82	0.82	••	•	
Lecterius	86.77	3.08	0.76	3.09	3.62	0.67	••	٠	
Chanterella	91.42	2.64	0.43	3.81	0.96	0.74	••	•	
Carrota	86.77	1,18	0.29	9.06	1.67	1.03			••
White Cabbage	92.11	1.52	0.15	4.17	1.17	0.88	•••	•••	•••
Red Cabbage	91.61	1.67	0.15	4.78	1.05	0.72	••	•••	•••
Cauli flower	90.89	2.48	0.34	4.55	0.91	0.83	٠	••	٠
Spinich	93.34	2.28	0.27	1.74	0.50	1.87	•••	•••	•••
Asperague	95.34	1.64	0.11	3.74	0.63	0.54			

(* a little: ** = satisfactory: *** = much)

Translated from E. Haberasat, Unsers Pilze, Hallwag, Bern, p.20.

TABLE 2

Calorific Value of Wild and Cultivated Fungi compared with other vegetables.

1 kg = 2.2 lb of:	Calories
Boletua edulia	343
Mushrooma	27B
Malk Capa	209
Chanterellea	229
Carrota	340
Cebbage (whate headed)	244
Rad Cabbage	269
Cauliflower	248
Spinach	249

Treneleted from E. Habarasat, Unsere Pilze, Heilwag, 1946, p. 21.

TABLE 3

Minaral blements of Mushrooms compared with Miseral Elements of other vegetables (in percentage of the edible portion (Shermen)).

	Cal-	Megne-	Potas.	Sod-	Phos-	Chior	Sul.	Iron
	ctun	aium	ion	ium	Phorus	ins	phur	Iron
Muahrooma	.014	.016	. 384	.027	.098	.021	.051	.00073
Carrota	.045	.020	.308	.077	.041	.039	.022	.00062
Cabbage licaded	.046	.012	. 294	.027	.034	.038	.067	.00043
Cauliflower	.122	.014	.222	.068	.060	.050	.086	.00094
Spinach	.078*	.050	.537	.89	.046	.066	.036	.00255

"Not nutritionally available.

Shermao, H.C. Chemiatry of Food and Natrition, 5th Edn., 1938.

The Macmillan Co., New York City.

1,	GOOD KING HENRY CHENOPODILM BONUS HENRICUS	GOOSEFOOT CHENDPODI ACEAE	Yellow May - Aug	Valuable substitute for spinach. Leaves and young shoots may be eaten raw, or horled. Peel the shoots, remove stringly parts, cut into equal lengths, tie so bundles and botl in salt *stor until tender.
2,	DANDELION TARAXACUM OFFICINALE	DAISY COMPGSITAE	Yellow Mar - Oct	The calorific value of Dandelion leaves is twice that of cabbage. Young leaves may be eatto raw and both the roots and leaves one be bailed. To remove the bitter tasts change

TABLE 4

FLORER

Blog

Red

May - Jul

Rtu-

Jal - Sen

White and

Feb . Nov

Apr - Jul

EDIBLE PARTS

January onwards. The leaves can be eaten ray.

A few leaves can be found in winter.

in minorals. The leaves can be esten raw:

they have a shorp tosts and are frequently used in salada. Good in sopp.

The young leaves should be boiled. Change

the water once, or twice to remove the bitter

reare. The tender roots can be bouled lake carrots. Boost sod ground chicory give body and flavour to coffee, but it is not very

Very teaty. The small leaves may be bouled

and mixed with other resetables.

the water once, or twice, Very useful because it can be found from

or cooked like spinsch.

palatable alone.

Very rich

FAMILY

VALUE TO LAN.

DOOK

DALSY

PINK

CARVOPHILL ACEAE

COMPOSITE

VALERI ANACEAE

POLYGONACEAE

Ser

NAME

COBN SALAD OF LAMB'S LETTUCE

VALERIANELLA LOCUSTA

CHICORY or WILL SUCCORY

COMMON SORREI

RUMEX ACE-TOSA

CICHORIUM ITYBUS

STELLARIA MEDIA

CHICKWEED

TABLE 4 (contd.) NAME Ser

11. DOG BOSE

BOSA CANINA

12. JACK - BY - THE - NEDGE

ALLIARIA PETTOLATA

	BUIRUSH, REEDMACE OF CATS TAIL TYPHA LATIFOLIA	ТҮРНАСЕЛЕ	Yellow Jue • Jul	The rind of the root and the young stem to a beight of 18° is pecked off and the white teader part can then he exten raw or boiled. The pollen from the flower spike can be used as flour.
8,	BLADDER CAMPION SILENE VULGARIS	P1NK CARYOPHYLLACEAE	White Jun - Sep	The Icaves way be boiled and maxed with other vegetables.
9.	BRAMBLE RUNDUS FRUTICLS	ROSE ROSACEAS	Piek Jee - Aug	Not only the blackberry is edible: the young teeder shoots if boiled for ten minutes ere very tasty. Tee can be made by nooring boiling water over a table-apoonful of fresh, or dried bramble learss, which should then te allowed to draw for 5 · 10 minutes.
10.	BRACKEN PETERIDIUM AQUILINUM	POLYPODY POLYPODIACREAE		The young green shoots just so they are unfold- ing cas be gathered and boiled for half so bour. They have a sticky juice and atrong flavour. The reots can be resated.

Pink or White

Jun - Jul

Mice

Apr - Jun

FLORES

FOIRI F PARTS

Natures richest store of vituein A & C. Cut.

the hips is half, remove the central core of seeds and fry the remaining shell-like skin over a fire (or eat them raw).

The leaves and stees have a strong garlic

flavour. They may be eaten raw. Most neonle profer to mix thew in small quantities

with other leaves.

FAMILY

BOSE

BOSACEAR

CARRACE

CRUOIFERAF

TABLE 4 (contd.) 13. LADY'S SMOCK OR CLCKOO FLOWER

PILE WORT BANDOULUS FICARIA

15. GREAT BURDOCK

DADAVER

ARCTILM LAPPA

16. FIELD OR CORN POPPY

17. FERFWEED, BOSEBAY

WILLIAM HERR

18. FLOWERING BUSH

TRACOPOGON

20. GREATER STICH WORT

STELLARIA

BUTOMES

19. GOATS BEARD

CHAMAEN EBION

AUGUSTIEGO IIIM

NAME

CARDAMINE PRATENSIS 14. LESSER CELADINE OR

Ser

CABBAGE CRUOIFERAE
 BUTTERCUP BANUNCULA CEAR
DAISY

POPPY

PAPAVERACEAE

#1LLOW HERE

ONAGRACEAE

BICTOMACEAE

COMPOSITAE

PATEN

DINK CARYOPHILLACEAE

FAMILY.

ELOWER.

Pink

Ann - Ive

Yellow

Mar - May

Pink

Red

Pink

Jul - San

Pink

Jul - Sep

Yellow

Inn a tul

Whi to

Apr - Jun

Jun - Aug

Jul - Sep

FOURIE PARTS

The leaves may be eaten res or cooked as greens.

large tendar leafatalk and flower stalk, then

Gather young leaves before the plant flowers.

Roiled in selty water the leaves bave a nutty flavour and combine wall with Sorral-

The young stems and leaves can be boiled as

greeps and the nature stalks should be pasted

and their assetish interior eaten res. The

dried leaves of Fireweed take a good beverage-

The rootstalk should be peeled and boiled like

Both the stems and roots have a sweet buice

and way he eaten ras. Alternatively, they

The leaves and stems are edible raw, or boiled.

nerators. It can also be consted.

ean he hadled outal tender.

est res or boil. The root can also be boiled. Poppy leaves are not in the least nercotic!

Pool the

Yaung leaves are good res; older ones are

peppers, but can be used to add flavour to

Cultivated as a vegetable in JAPAN.

etews and sours.

Ser	NAME	FAMILY	FLOWER	EDIBLE PARTS
21.	GREAT PLANTAIN PLANTAGO WAJOR	PLANTAIN PLANTAGINACFAE	Green May - Sep	The leaves are cooked as greeus. It is often esten in CH1%A and AMERICA.
22.	GOUTWEED, or GROUND ELDER ALGODODIUM	PARSLEY UMBBLLIFERAE	White May + Aug	The young leaves have a delicate flavour. Trast them in the same way as Nettle leaves. So do not est them fully developed as they are sauseous.
23.	HAWTHORN, or WAY GRATAGUS WONOGYMA	ROSE ROSEACEAE	White or Pink May - Jun	In apring the young shoots are delicious ram. Later in the year the have are juicy mosty ead pleasing to the taste.
24.	IVY LEAVEL TOADFLAX CYMBALARIA	SNAPDRAGON SCHROPHULARI ACEAE	Blue May - Sap	The small leaves may be boiled and mixed with other small plente.
25.	HOP HUMULUS LUPULUS	HEMP CANNABI NACEAE	Green Jul - Sep	Common in hedges and open woods. The young shoote were very populer in Britain about 100 years ago and still ere in countries auch as Belgium. Peal, cut up and boil the sheota until tendar.
26.	FENNEL FOENICULUM VULGARE	PARSLEY UMPELLIFERAL	Yellow Jul - Oct	The leaves can be eaten raw. The leaves miso add m good flavour to soups and aterm. The young roots and shoots can also be boiled.
27.	COMMON HORSETAIL EQUISETEM ARVENSE	HORSETALL EQUISETACEAE	Green	The outer trasue can be removed from the young shoots of the Horsetail and the sweet interior cates raw.
28.	JUNIPERUS COMMUNIS	CLPRESSEACAE		The bluish black berries, which in some cases grow to the size of a marble, are full of nourishing pulp.

DRIVOPTE IS SPINUIOSA sprime and then boiled or steamed. The old Icaf stalks on the underground stem can be roasted. 30. NIPPLE WORT DALSY Very bigh celorific value. Cau be oaten raw LAPSANA COMMENTS COMPOSITAE or boiled for eight minutes. 31. PIG NOT OR EARTH NOT PARSI IV Mhite The cute can be found 2.3 inches below the CONOPODIUM MAJUS UMBELLIFFRAE May - Jun surface. The tubers are adible rev or conked-32. POLYPODY POLYPODY Solect young stalks not more than 6-8 inches

FLOWER

Shire

May - Aug

Shite

Jan - Dec

Valley

Yellow.

May - Oct

Green

Jun - Sep

May - Ane

FOIRIF DARTS

The young fronds may be collected in early

long. Break them off end drew them through the closed hand to remove the sool. Wash and boil for about 30 minutes.

The small flusby leaves of this little plant

are pleasently sharp and are valuable because

The small leaves may be boiled and nived with

The roots can be boiled, rosated, or eaten

The leaves and the thick succulent roots can

be boiled or eaten raw. Very high calorific

All the year round young nettles can be found. They are valuable because of their high food

value. Choose young ones 6-8 inches high. Chop them up and boil for six minutes.

they concain vitemin C.

other vesetables.

Tow.

FAMILY

CARRACE

CARRACE

CRUFTFERAE

CRUCLEEBAE

BOSACEAE

COMPOSITAE

DRITICA CEAR

DATES

NETTLE:

TARLS 4 (contd.)

29. AARBOW BUCKLER FERN

POLYPODIUM VOLGARE

CRUFLEARIA OFFICINALIS

CALSELLA BURSA PASTORIS

PONTENTILLA ANSERINA

SONTHUS OTERACEUS

33. SCUBVY GRASS

34. SHEPHERINS PURSE

35. SHIVEDWALD

36. SNOW THISTLE

37. STINGING NETTLE

PRTICA/DIGLICA

Ser

NAME

Ser	NAME	FAMILY	FLOWER	EDIBLE PARTS
38.	SWELT CICELY MYARMIS GEARATY	PARSLEY LAMBELLIFFRAE	White May - Jun	The roots when boiled have a taste like chestouts. The leaves may be used to add flavour in the same way as nint.
39.	TANAY TANACETUM VULGABE	DAISY COMPOSITAE	Yellow Jul - Sep	The leaves and flowers can be used to make a tes. One or two leaves can add flavour to en omelette, or atew.
40.	TUBEROUS CARAWAY BUNIUM BULDOCASTANUM	PARSLEY UMBELLIFERAE	White Jun - Jul	The tuberous root.
41.	WATER, ARLY OF WILD	AFACEAE	White	Like most numbers of the lify feasily, the plant parts are filled with crid crystals sating these parts upplachle until the hitter- ness is discipated by drying or cooking. Having cooked the starchy roots they should then be pulvarised and dried into a crude flour or farics. This can then be cooked as a sort of porridge.
42.	WATER CRESS NASTURTIUM OFFICINALE	CASBAGE CRUCIFERAE	White May - Oct	The leaves and stems can be esten raw. If the ester in the eres might be contaminated,

TABLE 4 (contd.)

				sort of porridge.
42+	WATER CRESS NASTURTIUM OFFICINALE	CABBAGE CRUCIFERAE	White May - Oct	The leaves sud sters can be esten raw. If the sater in the eres might be contaminated, then boil these greens.
43.	WARER PURSLANE HEPLIS PORTULA	LYTHACEAE	Pink Juo - Sep	A very nutritious plent. All perts ere good to cet raw. The leaves tests lake watercress

when cates fresh and they are very good thirst relievers. 44. WHITE MUSTARD CARBAGE Mellow The young slightly peppery leaves and young SINAPIS ALBA CRECIFERAE May - Aug flowers are good raw. The entire plant is

tasty when cooked.

Ser	NAME	FAMILY	FLOWER	EDIBLE PARTS
45.	WILD CELERY APILY GRAVPOLENS	PARSLEY EMBELLI PERAE	Green Jun - Sep	The peeled young stems and leaf stalks, tasting and smelling like celery are good raw. The young leaves are excellent when cooked, perticularly with fish.
46.	WILD PARSNIP PASTINACA SATIVA	PARSLEY UMBELLIFEPAE	Yellow Jun - Sep	The root.
4^.	*11D RHUBARB RHEUM		White	The atem of the wild rhuberb can be esten like cultivated rhuberb. The strong and bitter teste can be elleviated by repested boiling in water.
48,	WINTER CRESS OR YELLOW ROCK BARBARIA VULGARIS	CABBAGE CRUCIFERAE	Yellow Apr - May	The leaves are bitter, but, the young ones can be catem raw. The bitterness aso be leasened by cooking in several changes of water.
49.	CURLED DOCK RUMEX CRISPUS	BUCK WHEAT POLYGONACEAE	Green Jun - Oct	Gether the young leaves in epring end cook until tender. Change the water to remove the hitter taste.

FLOWER

EDIBLE PARTS

TABLE 4 (contd.)

SALECORNIA PUROPEFA

-	BAMBARIA VULGARIS			-,
	CURLED DOCK RUMEX CRISPUS	BUCK WIEAT POLYGONACEAE	Green Jun - Oct	Gether the young leaves in epring end cook until tender. Change the water to remove the bitter tests.
50%	BBOAD LEAFED DOCK RUMEX OBTUSIFOLIUS	BUCKWHEAT POLIGONACEAE	Red Jan - Sep	Same as the earled Dock.
51	PATTENCE DOCK	BUCKWHEAT		Long cultivated as an early green. A good

			the bitter taste.
LEAFED DOCK OBTUSIFOLIUS	BUCKWHEAT POLIGONACEAE	Red Jun - Sep	Same so the earled Dock.
NCE DOCK BATIENTA	BUCKWHEAT POLYGONACEAE	Jun - Jul	Long cultivated as an early green. A go pot-herb.

	HUMEN OBTUSTFOLIUS	POLIGONACEAL	20.0	
51.	PATIENCE DOCK RUNEX BATIENTA	BUCKWHEAT POLYGONACEAE	Jun - Jul	Long cultivated as an early green. A good pot-herb.
52.	FAT HEN CHINOPODIUM ALBUM	GOOSEFOOT CHENOPODICEAE	Green Jul - Oct	A very common weed, found frequently in potato fields. Very tasty, cook leave for twenty minutes.

52.	FAT HEN CHINOPODIUM ALBUM	GOOSEFOOT CHENOPODICEAE	Green Jul - Oct	A very common weed, found frequently in potato fields. Very testy, cook lesse for twenty minutes.
53.	SALT WORT	GOOSEFOOT CHENOPODIACEAE	Aug	Used as a por-herb and slmo for pickling.

Ser	NAME	FANILY	FLOWER	EDIBLE PARTS
54.	PERFOLIATE CLAYTONIA MONTIA PERFOLIATA	PURSLANE PORTULACEAE	Whate Apr - Ang	The leaves and stems can be eaten raw, or conked.
55.	MARSH WARIGOLD or KING CUP CALIHA PALUSTIRIS	BUTTFROIP RANUNCILACEAE	Yellow Apr - Jul	The leaves and stems are builed like spinsch. Many people say that Warsh Marigold is superior in taste to spinseb. The flowers are slac edible.
56,	PRICKLY LETTUCE LACTUCA VIPOSA	DAISY COMPOSITAE	Green Jul + Sep	Young leaves are very tender and can be eaten ram. If cooked, they need vary little boiling.
57.	REDSHANK or WILLOW WFFD POLYGONUM PERSICARIA	BUCKWHEAT POLYGONACEAE	Pick Jun - Oct	This is used as a good early salad plant,
58.	SCARLFT PIMPERNEL SHEPHERDS WEATHERGLASS ANAGALLIS ARVENSIS	PRIMROSE PRIMULACEAE	Red Jus - Aug	The leaves end etems can be saten raw, or cooked.
59.	SWEET FLAG ACORUS CALAMUS	ARLM ARACEAE	Green Way - Jul	The rootstock has a pungeot, biting, aromatic flavour. In America at is used by confectioners as a candy. To prepare it they out it into slices and boil, the pieces are then removed again and boiled in a thick ayrup.

White

Apr - Jul

Purple

Jun - Aug

The bulb of this plant is pleasant and very

The roots when tender can be used as food and

the tops are sometimes used as greens.

nutritious when cooked.

LILY LILLIAGEAE

DAISY

COMPOSITAR

TABLE 4 (contd.)

60. STAR OF RETHLEHEM

OLNI THOGALUM

UMPELLATUM 61. SALISFY

TRAGOPONGON

PORRIFOLOUS

Ser	/4ME	FAMILY	PLOWER	EDIBLE PARTS
ь2.	EVENING PRIMPOSE CENOTHERA BIENNIS	WILLOW HERB ONAGRACEAE	Yellow Jun - Sep	The roots can be eaten and are said to be wholesome and nutritious. The young leaves can be eaten raw.
63.	DWARF WALLOW MALVA NEGLECTA ROTUNDIFOLIA.	MALVACEAE	White Jun + Sep	The tender shoots and leaves are edible raw or cooked like spinach.
64.	SEA ROCKET OAKILE MARITIMA	CRUCIFERAE	Jun - Aug	The fleaby root can be ground and used as flour. The leaves can be saten raw or used as a pot-herb.
65.	CLOVER TRIFOLOUM PRATENSE	PEA LEGUMINOSAE	Pick Jus - Sap	This end other spaces of Clover are caten raw.
66+	COMMON THISTLE CIRSIUM VULGARE	DAISY COMPOSITAE	Purple Jun - Oct	The bees of the thirdle flower head contains a "Nur" which is at its heat for sating whom the flower is fully opened, although they asy to mater while the flower is atill in mature. After the flower head has been removed the soft "aut" will be found in the base of the flower and at may be caten raw. These "nuts' are nurraitions and satisfying.
67.	ELDER SAMBUCUS NIGRA	CAPRIFOLIACEAE	White Aug - Sep	The purple berries are edible, raw or cooked. The flowers can be mixed with hatter and baked anto cakes.
68.	PRFD GRASS PHRAGMITES COMMUNIS	PHRAGMITES GRAMINEAE	Aug - Sep	Wheo the reed is punctured it exudes a panty substance which hardens into gum. This is very rich is sugar. Indians in America also eat the roots of the reed.

TABLE 4 (contd.)

Ser	NAME	FAMILY	FLOWER	EDIBLE PARTS
69.	MOUNTAIN SORRFI OVYRIA DIGYNA RHFUM IIGYNUM	RUMEX POLYGONACFAE	Green/Red Jul - Aug	The fleshy, succulent leaves have a pleasing acid teste and can be esten raw, or as a pot herb.
70.	WILD STRAWBFRHY PRAGARIA VPSCA	POSE POSACFAE	White May - Jun	The strawberries.

FUNGI CHECK LIST

ENGLISH NAME

HORSE MUSHROOM

1. The following fungi are common and good, are excellent to est:

LATIN NAME

AGABICUS ARVENSIS

PHARLOLFORDER AUREA
PHOLIOTA MOTABLIAN
PLEISONES OSTBRANES

AGABICUS AUGUSTA

AGARICUS AUGUSTA	
AGARICUS BITORQUIS	
AGABICUS CAMPESTRIS	FIELD MUSHPOON
AGARICUS SILCICOLA	
AGARICUS SUBPERONATUS	WOOD MUSHROOM
ARMILLARIA MELLAE	HONEY FUNGUS
AURICULARIA AURICULA	JEWS EAR
BOLETUS BADIUS	
BOLETUS EDULIS	CEP
BOLETUS CYANESCENS	
BOLETUS HILLGANS	
BOLETUS ERYLDROPUS	
BOLUTUS LETTIES	
BOLETUS PHLYEPOLENTUS	
BOLETUS TESTAGEOSCARBER	
CANTHABELLUS CIBARIUS	CHANTERELLE
CLITOCYBE GFOTROPA	
CLITOCYBE GIGANTEA	
CLITOCYBE NFBULARIS	CHEESE CAP
CLITOPILUS PRUNULUS	
COPRINUS COMATUS	SHAGGY INK CAP
CRATERELLUS COUNUCOPTODES	HORN OF PLENTY
FISTULINA HEPATICA	BEEF STEAK FUNGUS
BYDNO-HEA THEASNET	TRUPPLES
LEPIGIA EMONIATA	
* THOUGHTES	
* PRXTBA	PARASOL MUSICROOMS
* BHACOBES	SHAGGY TARASOL
LYCOPERUON CAPLATEM	MOSAIC PUFF BALL
 EXCIPULIFORNE 	
" GIGANTEUM	GIANT PUFF BALL
MORCHHI LA CONTCA	MORELLA
* ESCULENTA	
* VALGARIS	

OYSTER FUNLS

LATIN NAME

ENGLISH NAME

RUSSULA AURATA VIRESCENS

TUBER AESTIVUM

SPARASSIS CRISPA

TRICHOLOMA FLAVORVIRENS GAMBOSUM

NUDUM PORTENTOSUM SAEVUM ST GEORGE'S MUSHBOOM WOOD BLEWITS

WOOD BLEWITS TRUFFLES

The following fuors are known to be poisonous:

LATIN NAME	ENGLISH NAME	REMARKS
AMANITA MUSCARIA	FLY AGARIC	Peisonous but not deadly
PANTHERINA	PANTHER CAP	Very poisonous
* PHALLOIDES	DEATH CAP	Deadly
UMBRINA		Poisonous
VIROSA	DESTROYING	Deadly
SPISSA		Poisonous
* PORPHYRIA		Poisonous
BOLUTUS PACHYPUS		Poleonous
CLYTOCYBE RIVULOSARES		Poisonous
DEALRATA		Poisonous
CORPINUS ATRAMENTARIUS	SHOOTH INK CAP	Slightly poisonous
MICACEUS	GLISTENING INK CAP	Slightly poisonous
ENTOLOMA LIVIDUM	LEADEN ENTOLOMA	Deadly
GYHOMITRA ESCULENTA	LORCHEL	Poisonous when raw but edible if boiled and water thrown away.
HERBELOMA CRUSTULININFORME	POISONOUS PIE	Slightly poisonous
HYPHOLOMA FASCICULABE	SULPHUR TUFT	Poisonous
* SUBLATERITIUM	Dominion tori	Slightly polsonous
INOCYBE GEOPHYLIA	EARTHY INCCYBE	Poisonous
ASTEROSPORA	Eddin Troctor	Poleonous
NAPIPES		Poisonous
PATOULILLARDII		Deadly
MACULATA		Peisonous
" PRAETERVISA		Poisonous
FASTIGIATA		Dangerously poisonous
* GRISO LILACINA		Poisonous
LACERA		Poissons

LATIN NAME	ENGLISH NAME	RAMARKS
LACTABLUS BLENNIS		Personeus
LACTABLUS HELVUS		Polsonous
LACTABIUS PYPOCALUS		Slightly Poisonous
LACYARIUS QUIETUS		
LACTABIL'S RUFE'S		Porsonous
LACTARIUS TORMINOSUS	WOOL MILK CAP	Slightly Poisonous
LACTARIUS PATIBLES		Poisonous
LACTABIUS VELLEBRUS		Slightly Poisonous
LACTABIUS VIFTUS		Slightly Poisonous
LACTARIUS CILICOIDES or PUBE.SCEAS		: :
LACTALIUS SPINOSULES		
LACIABIUS SCHOBLCULATUS		Parennes
LACTABIUS THIVIALIS		
LACTABIUS ELIXUOUSUS		
PAXTILUS INVOLUTUS		Poisonous when law
PhALLEGIA XANTHODEIMA	YELLOW STAINING MUSHBOOM	Paikonous
BUSSULA BADTA		
BUSSVI A EMPTICA	THE SICKNER	
BUSSPLA FILLPA	BITTEH RUSSULA	
BUSSUL* GRAGILLIES		Slightly Poisonous
HUSSI LA OCHROLEUCA		Porsonous
BDSSCLA QUELLTII		
BUSSULA SANIFEM A		Mightly Polsonous
DESSULA SABIONTA		Розмония
RAMARIA TORMUSA		
SCLEEDDEPRIS ALBANTIACIM	COMMON EARTH BALL	
STROPHARTA ALBEGINOSA	VERDIGBIS AGARIC	Personous

SEGAR WRACE

EDIBLE KELD

1BISH MOSS

1 AVER

DULSE

CARMEND

LATIN NAME

ALABLA ESCULENTA

CHONDRUS CRASPUS

BRODAMENTA PALMATA

LAMINABIA DIGITATA

PORPHYRA

ULVA LACTUCA

SACCEABINA

Ser

LAMINABIA

6.

EDIRLE SEAREED

COLOFT

Green

Brown

Brown

Brown

Shiny red

Dark purple

Red

Red

EDIBLE PARTS

Very common. Wash it and the entire plant can be caten. Found both sades of the Atlantic and Pacific.

The most common edible brown scaweed. The frond or leaf

can be caten ray when young. The young stalks are aweet

to the taste. Found on both sides of the Atlantic and on

The entire plant can be eaten. Boil it into a mild drink:

It should be boiled to soften it, after which it can be mixed with wegetables or soup. It is found on both sides

when mixed with milk it gives a blancasage. Found on both sides of the Atlastic and Pacific.

Comman and has been used as food for centuries. Still

and then frv. Found on both sides of the Atlantic and

The young fronds can be esten raw but are tough. It is often rolled and used as a chew. It is sweet to the taste. Found ow both sides of the Atlantic and in the Mediterranean

Rich in protein and can be stewed to give a nutritious soup.

marketed in S Wales. Clean and boil until tender (about air hours in winter and eight in sommer).

the coasts of Chins and Japan.

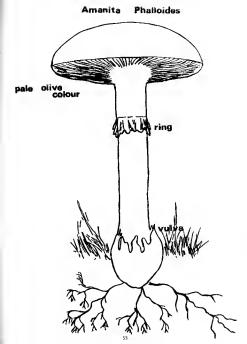
of the Atlantic and Pacific.

The lest can be steved or fried-

Pacific.

CALENDAR OF WILD FOODS

JANUARY- WARCH	JULY-SEPTEMBER	JULY-SEPTEMBER (contd.)
Corn Saled	Ash (August)	Whortlebarry (Aug-Sep)
Dandelson	Barbarry (Sept)	Wood Sorrel
Herb Bennet	Beefstesk Mushroom	Yallow Gost's Beard (Sep)
Horsaradish	Bilberry (Aug-Sep)	
Laurel	Blackbarry (Sep)	OCTOBER- DECEMBER
Laver	Blawit (Sap)	Barberry (Oct)
Lettus Laver	Corn Salad	Beach Nuts (Oct-Nov)
Sauce-all-alone	Crab Apple (Sep-Oct)	Basfatsak Mushroom
Stinging Nettle (March)	Dandelion	(Oct-Nov)
Tanay	Eldar	Bleat (Oct-Nov)
Watercrass	Fairy Ring Mushroom	Corn Salad
	Fenna l	Dandalion
APMIL - JUNE	Field Meshroom	Elder (Oct)
Corn Salad	Field Poppy	Fairy Bing Mushroom (Ort)
Dandelion	Ground Elder	Field Mushroom (Oct)
Elder	Hawthores (Sep)	Hawthorn (Oct)
Fairy Bing Mushroom	Hasel Nuts (Sep)	Hazal Nuts (Oct)
(Moy-June)	Harb Bannet	Harb Bannat
Fannel	Horse Mushroom	Horas Mushroom (Oct)
Field Poppy (May-Juna)	Horasradiah	Horagradish
Ground Elder	Junipar (Sap)	Juniper (Oct)
Herb Bennet	Lady Smock	Lady Snock (Oct)
Hop (May+June)	Laural	Leural
Horsafadish	Lover	Lavar
Lady Smock	Nipplewort	Lattuca Laver
Laural	Parasal Mushroom	Parasol Wushrnom (Oct)
Nipplewort	Pig Nat	Rose (Oct.)
Pig Nut (June)	Rose (Sap)	Sauca-all-alone (Oct-Nov)
Salad Burnet	Howan (Aug+Sap)	Shaggy Cap Mushroon
bamphire	Sulad Burnet	Slos (Oct)
Sauce-all-alona	Naucreall-alone	Sweet Gecily (Dot)
Shaggy Cap Mushroom (May-June)	Shaggy Cap Mushroom	Tansy (Dct)
Sorrel	Sorral	
Sow Thistle	Sow Thistle	
Stinging Nettle (April-May)	Strawberry (Jul-Aug)	
Sweet Cacily (May-Jume)	Swant Cocaly	
Tausy	Teney	
Watercress	Waterernsa	
Wood Sorrel	Whent (Aug-Sep)	
	racie (Nuk-uch)	



PART 7

SNAILS

SNATLS

(Extract from a latter from the Proprietor of the Minars* Arma, Priddy, Nr. Walls, Sourcet.)

*Snaile have been eaten in many countries for thousands of years, the Romans being credited with learning bew to fatted them for the table. Although many varieties of annil are edible, in Enrope there are only two verietion of sufficient size to be worth preparing. The larger one, Solix Pometre - known variously so the Rosen Smail, the Apple Smail, or by the French as the Large White Smail (Gros Blace), is the one more usually served in restaurants. In France they say be obtained live to many markets, but theme days they are more usually in time or frozens. After a fairly elaborate cleaning process they are cooked in a court bouillies of vegetables and white wine and then stuffed back into their shells with a garlic butter sance. England tinned, and octamionally frozen, Gros Blanca are evailable in delicatossen shops, but in England the ceting of smeils has been confined to the chi-chi restaurants, with the exception of the morth-seat of Somerest and Bristol, where annuls have been eaten for generations, although the prattice is these days not very tonsec. Smails used to be sold in fish shops and on stells in Bristol and Bath, much as winkles are sold at the speside, but I know of no shops whore they can be obtained to-day.

The small setes in these parts is Mellar Asperse, the Common Garden Small. The vertexy is also setes in France, where a can a hower me to heatin Green, Small, (Petti Green). It is not no extended as Grow Blanc but I typest this is no second or the smaller size rather than its lead of the common of the smaller size rather than its lead of the common of the smaller size rather than its lead of the common of the smaller size rather than its lead of the common of the smaller smaller than Grow Blanc, is not minimate to be rubbery. Furthermore, although its shall is a good deal smaller than Grow Blanc, the small insade is now or least the small size.

- In France smalls are cultivated, and although they are frequently collected from the wild and fattened or even estem attraight ewey, nost of them era commercially produced.

 In fact they are also synthesized from the lungs of sheep!
- In England, as far as I know, I as the only cultivator of notile, which I rase and fattan for use in our restaurant. Me have not previously supplied them other then cooked to be eaten here, but this year we expect to atart amplying then to one or two other restaurants who are interested in them.

The local tradition of enting smalls was simply to boil them and out them like winkles. Sometimes after boiling they were bottled in vineger. It is also reported, and I beliove, that readms would reast them on a shovel over the isr bresier. Our method is more sisberate.

- I do not know shout notile found cataids Europe. I believe that there is a great read in Africa which has cooked and carred in alloce, but whilet there may be polisoness small a learners there are be not constructed in the control of the control
- The only risk with annils is that they may have entre something which, sithough harmless to them, in injurious to humans, and as it is not practicable to eviacorate a small hafore esting it, any more than to eviacorate a shring or whitebast, one must make sure that a email is starved, or only allowed to feed on material that is harmless to humans hefore it is cooked.

This mean quereations the smalls for four or five days before preparing them. The risk is not change so is alight, but it as well to elements it. Of course only live noted whose like the course of the best like the course of the course of the shall do not come that they appear benighty. If the observe of the shall not before one that is not hibbranting common ences will indicate whether it is betally. Smalls along during the day, greated by a silve of the course of the cour

Having collected as seequate sofficiency of auxilally large smalls, (small onts are too much ol a field to bother with) and questatend then for a far days, (during whach period they are he fed on may sholesome grees leaves, or bram, flour or breed outside in sater) they must then be noticed in single, while water. The centel requires a lid, otherwise the assails will return to maker. He was not a sixtle more east; whould be added. The ansatz, of the period of the period of the superior of the sate of the period of the superior of the sate of the period of the sate of the same to pure their allowed they return to the same to pure their allowed they return the same to pure their allowed they are the same to be superior the same that they are the same that the same that the same that they are the same that the sa

After 24 to 36 here the analls, most of which will now be dead should be removed from the asily weter, ciesed, and planged into reportly boiling water. The water is brought beak to the bell and boiling continues for about 3 to 4 shouter. A large wess! is necessary as a footh force on the about 3 to 4 shouter. A large wess! is necessary as a footh force on the doesing the firs. (The repid beiling removes alies and get from the results.)

. . .

After boiling the smelle are removed from the water, rinsed, and then simmered for about four hours. They can be simmered in plain or elightly saity water, but it is better if vagstables, herbs, and wine or cider is added to the water.

After elimetring the entile are ready for stuffing with the sauce. This should be lergely butter, and the cooks own tests still suggest other ingredients. The French use perselvy seed a ton at two of gerlie; we use herbs, cress and choses. People seem to prefer ours.

After stuffing, when the hutter has hardened, the smalls can be stored in a refrigerator or deep frezen.

To serve, the prepared smalls are pee, mouth upwards, on aprical analy plates, which have little depressions in them to steady the smalls and are then put in a moderate oven for about tem minutes; they are then put under a grill for about helf a minute entil the butter is sizaling and are then eaten.

To eet, the smalls are picked up by the shell using special assal tongs or paper - the shells being hot - and the small prized not with a little fork or spike. They are usually esten with hown or white bread, which serves to map up the saace, which some people consider the point of the whole exercise.

So much for unails a le gourmet. I doubt, however, whether this could resiliatedly by engarded as a promision be unvivaled technique. Nor, of course, would it be necessary. Smalls com, I am told, be esten rese. The teller did not to so as to say whether the enter nearase, has probably he would. Simple builing or rosating, however, would certainly be estimated or, and if there is time or opportunity to include some of the cleaning process, so much

The natritional value of the smail is exceptionally high, particularly in proteins and mineral salts. (Legendarly, however, it is as sphrodisise. Bow this might affect the prospect of sarvival is a matter that you will, no doubt, take into account before recommending smails to excepts.)?

PART 8

ANIMAL TRAPS AND SNARES

ANIMAL TRAPS AND SNARES

"Hardshapa" You don't know what hardships are".

Motto of the Australian Overlanders

INTRODUCTION

Animal food will give the most food value par pound. Anything that creaps, crevia, swime or flize is a possible mource of food. The Chinese relish fat young puppies - amy eveder can also sojoy them if he is lucky to get his hands on the fluffy beast.

If there is wild life about they will leave their eigns - game trails, big or small, fresh droppings, tres ecratekes, borroas, nests and so on. If the aigns are fresh then obviously there is game about that can be trapped, If there are no recent alone of wild life it is a seste of time and effort to set traps.

There are many elaborate types of traps which can be used to catch different types of animals and bards, both large and small. To make them is obth time consuming and tirring - end often to no eveil! The states, or except meads traps that are simple and easy to cometruct. This process aims to above just that.

WHERE TO SET TRAPS

Find the anisels tracks, or "runs" which lead from its home to its facaling grounds or witering places. Along these runss are that best places to ask traps because that animal will come is only one of the two directions. Thus type of place is far more successful them e trep which is set in the open with bat to extract on animal.

Avoid setting a trap close to an animals hame, or vary close to a water hole, because at these points the seised sell tand to be very elect. Anything suspicious will make the animal stay at home for days, or avoid it,

At last light, or first light enimels are on the move. Therefore it is at these times that traps are normally most successful.

BOW TO MAKE A GOOD TRAP

A kmife and wire, string or cord are inveriebly assential. The trop numt be strong, sedurally fixed and the pull up sepling needs to be apringly no set to life the watered missel or bird clear of the ground and so out of reach of other annumals.

For types of trops recommanded and aketches attached.

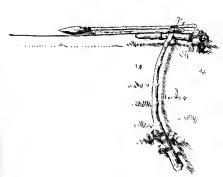
When setting traps avoid distarbing the natural satting of the surroundings, grass, shrub and sool atc. Remember to enmouflage all cuts nade in wood and saplings used sod use materials which blend with the natural sarroundings.

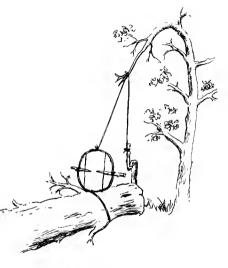
ROLLER SPRING SNARE



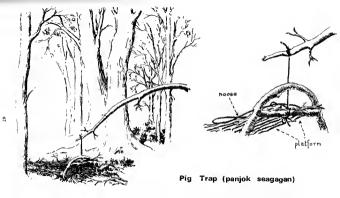
Spear Trap

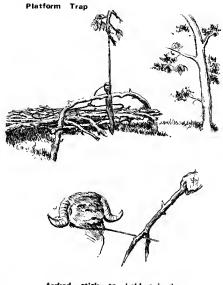




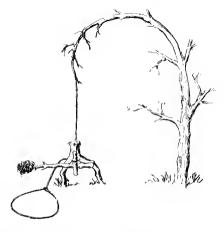


Monkey Trap

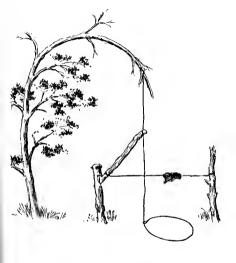




forked stick to hold animal



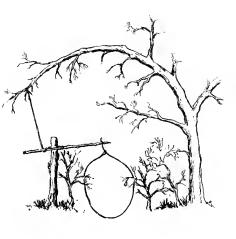
Baited Spring Leg Snare



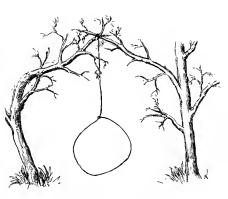
Baited Spring Snare

Rabbit or Hare Snare

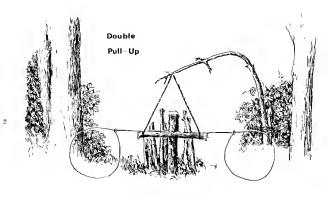




Spring Snare



Suspended Snare

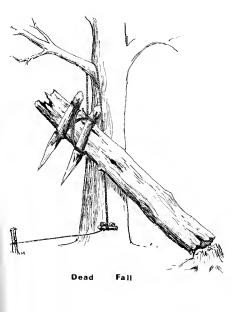


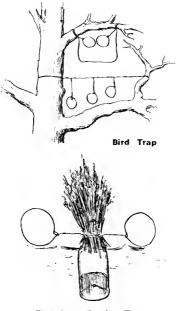




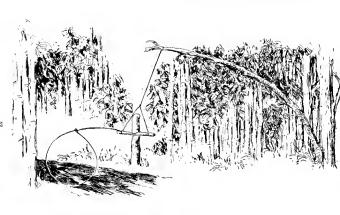
Daad Fall Snare

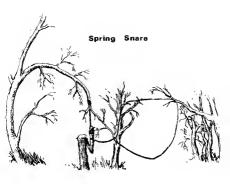






Floating Duck Trap





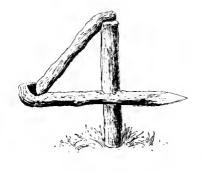
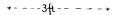
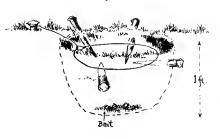


Figure Four

Fig. Four Deadfall



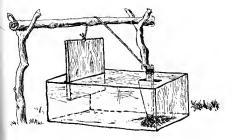




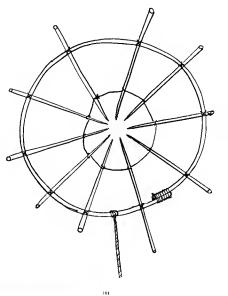
Baited Hole Noose

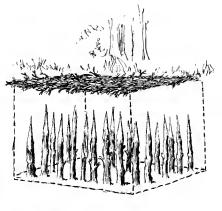
Bird Traps



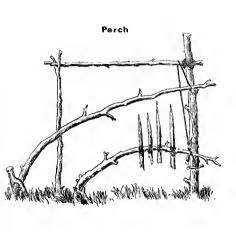


Animal Leg Trap

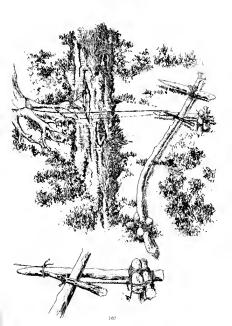


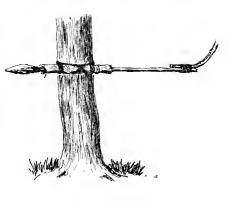


Spear Pit



Simple Spear Trap

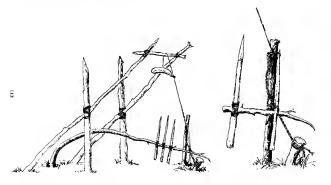




Bamboo Guide



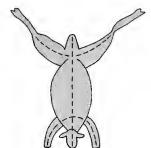
Monkey Trap (peti tagok)



SKINNING

SKINNING

- 1. Heng the animal upside down, bally towards you, and allow to bleed in the normal way.
- It is essier to skin an animal immediately after killing. If you are doing this it will be less messy if you skin it first and remove the entreils after you have skinned it.
- Slat the skin from mack to belly, ont e circle round the crutch and rail and cut up the inside of the leg to the knem joint. Cut round the legs at the joint.



- Beginning at the rwar legs, which ere opperment, peel the skin away until
 your reach the back of the animal, removing downwards towards the head.
 Datach the skin by cutting round the sack.
- 5. Rough Curing

Wash the skin if possible to remove blood and fless and acrape the inner side using sand or earth and a stone.

6. Using cord tretch the sh s tightly on a frame and leave out in the sun, inside uppermost, for at least one day.



The longer you can leave at in the oun the better,

7. To soften and to make the skie pliable, remove the frame, lay it over a fallen tree trunk, emooth stone, or on the ground and best it thoroughly with a branch.

 The emount of small from the hide will depend upon how well you have ecreped it in the first place, sed how long you were able to leave it on the stratcher in the aun.

USE OF SKIN

9. A fur will provide first class insulation between your body and the ground and if you lay it heir side up snow will not stick to the skin,

 It is not proposed in this precise to deal with the manufacture of improvised clothing and equipment. This is best practiced using hessian.

11. If it is snowing or raining for is best worn on the outside, otherwise wear the fur mearest the body.

FISHING

FISHING

INTRODUCTION

Figh are s very matritious form of food end the effort required to catch them is well worthshils. The following motes have been smitten as a guide to fishing and catching fish.

WHERE TO LOOK FOR FISH

All types of fish are attracted to shaded parts of streams, deep pools and backwaters. They slee like to get under subsorged rocks and logs, under banks and beneath low bridges.

If a stream, or river is in flood, choose a backwater where a small tributery enters the main stream.

If the weather is hot sed the weter los, fish the deep pools and shaded carts of the streem.

In cool spring seather, choose the shellow parts of the stresh that ere werned by the sun.

CATCUING FISH

There are savered methods in which fish can be cought depending on the country and the type of fish desired. Fish differ from sent other in their dista and habite just as animals de. Some fish, such as Troot will kill and set a small Trout; these cannibal Troat can be cought with a spinner, minnow or live hair.

Cetfish or Carp live end feed on the mud at the bottom of slow, muddy rivers and ponds. Cetfish can be caught on a hook heited with a smell piece of another fish.

of another fish.

Eals are slao s hottom feading fish sed can be fished for on the hottom.

They are attracted by rottem mest.

Pike are the ecevengers of the water. They will kill and est enything from small fish and froms to a young duck.

BAIT

If using a book, try to fied out what the fish in the seas are feeding on.
This sill depend on the time of the year, the state of the river and of course
type of fish. Some of the esselly occessful heits are insects, worms, next
shell fish, woodgrubs, microwe, weep meggots, pigs liver, eggs and screpe of
flash.

If not successful with one bait, heep changing them until a fish is cought. Then cut the fish open and try to identify what food it has been esting. Having found out use that perticular type of food as beit.

the batt can be used to attract fish; immeets small fish are good in this respect, but annil worst much do dis too quickly after being put on the book. When using lave buit, try catching a greathopper, or bettle and then tossing it on to the surface of this water. When it lands on the water it will start ticking and attracting good fish. If it is taken by a fish, catch more than the surface of the start of the start of the start of the start of the surface of the start on the line, toss the grasshapper as far out onto the water as possible and walk downstream with the line until the fish takes the bait.

Another way of live best fishing is to seach a small fish about one to too inches long. Place your book into the mesty perf of the back, or trill live but off the bottom, tore the line suc the pood, pool or exerc. The flost will give sermany when the batt is taken, but remember not to strike as soon as the flost goes under because in most cases the big fish will grab the well-or the best best better than the top the strike to turn at roads and well-or the best best first liben have to have time to turn at roads and

HOOES

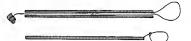
Do remember that when making, or buying fishing hooks that small hooks will catch large fish as well as small fish. But large books will only eatch large fish.

SPEARING FISH

This is a good method of esteking fish. One of the heat ways is at night, waing a torch, or light of some sort. The light attracts the fish and they are then easy to spear.

A variation of this eethod is to lay a flat piece of shining metal or e mirror, on the bud of the river on a monolight might. This will glint, like a light, and attract the fish. As they come to the mirror and pass over the top of it they are easy tergets to apear.

A good method of spearing fish in deylight is to find a rocky portion of a river. Then get another person to allowly lift rocks from the downstream and. As the water clears any fish that are there can be seen and appeared.



FISH SPEARS

These need to be made very atrong. They should not bend. The point of the apost must be very sharp; a blant appear will nevely be reflected off the scales of a hig fish. The three promped appear is best.

Do not throw the spear, a thrust is more effective. Try to get on top of the fish and if in shallow water, pin it down to the river hed. In this way backs will not be necessary.

There are two ways of searing fish, one is to have a none unde from a single strand of this wire which is them stuched to a long pole. Fish, such as Pike, its alongside weeds. Bring the mone from the back over its tail and move it slowly up to behind its gills. Them, with a quick matth, laft the fish onto the back.

The accord way of snaring fish is to use a hollow pole, such as a bamboo. Pass the length of this wire through the centre of the tune. Attach the wire to the pole at the timp end, leaving enough wire at the top end to make a loop or accord. At the other end of the pole, make a hand grap me the wire from a

smell piece of wood. This type of soure is usefuf, because with it, any size of fish can be caught.

ZEL TRAPS

Ecls make very good esting and are not very hard to catch. They are found in moet parts of the world, is the eas see well as in rivers, pends, lakes and canals. They have been knows to crose lead to get from a river to a pend to bread end in such esses can be essify hit with a stick end picked un.

Eels do not bite. They are however covered in a elippery slime, which makes then elmost impossible to pick up and lift out of the water.

When fishing for cele with hook and line do not strike when first the Eel is felt tehing the beit; weit for the beit to be evellosed.

NIGHT LINES

The 1s a very simple method of catching fish and cole which is frequently used by freshester fisherson. It is most escenarial und requires the minimus of affort. The line mend not be sheaked end can be left for a number of days. A Night Line is simple to sake from a servived kit. The only point to not that the hooke sent be baited with a strong beit, such as a small fish, or a that the hooke sent be haited with a strong beit, such as a small fish, or a washed off the hooke by Eals, without exclaime them.

BOX TRAFE

This is enother good way of catching Eals. The box should have a farsmall holes in the sides near the top and the best should be batted with a lump of emelly cent. The weighted hox can be left in the eater for up to even without being checking.

TICKLING TROUT

Trout ere the only fish that eam he tichled with success and it is one of the best ways of catching them. They are a very nervous ead elert fish and will only be found in clear running weter. As a result they bide in the following places:

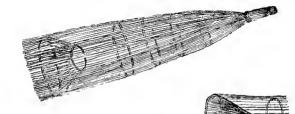
- e. Under the banks of rivers and atreams.
- b. In rat holes in the banks of atreams and rivere,
- c. Under rocke.
- d. In the foundations of atoms bridges.

These are the places where Trout can be found and tookled. It is impossible to get near a Trout lying in open water, let slone tickle it there.

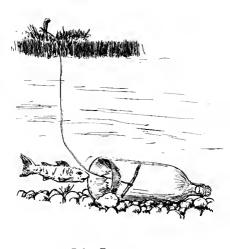
Then approaching the bank of a river or atrees that looks a likely page, there is no need for cession. Lie on the bank, textra at the descrizes and of the eddy and with hands together slowly more them along under the bank. By attring on the downtrase and, the fish's tall should be feld first. Straight it gently a few times, them still straking is gently, work towards its gills. When the stills are reached, greap the fish quietly and town it not the bank. An ret holes at is possible to find two, or three Trout all in one hole, In such a case, do not bother tickling them, as they cannot escope. Therefore kill them by squeezing their gills, before removing the hand from the rat hole.

When first learning to tickle trout people tend to be nervous. When they first touch a fish, they jump and startle is the fish which is then some of off. There is no need for this acryoweness, there is nothing haraful in British water.

To tickle trout with success s little determination is needed. Once this is resliced trout tickling is quite a simple and profitable art,

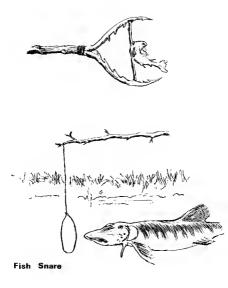


Fish Trap



Bait Trap

Fish Trap



WATER SURVIVAL STILL

WATER - SURVIVAL STILL

(This is we watruct from "Outdoor Life" - August 1965)

Several days without water mould finish off even the hardiestontdoor man, but the ground nader him - even in dewerts - usually contains note water than he needs to stay slive. The problem has been to extract the water from the ground and make it available for drinking.

Now, two aciantists have found a may to milk water from the desert with naturals which is simple to creet and costs less than a pound. Their "survival still" committe of a mis-foot square sheet of elear plastic and a childran's plastic buckst to cellect the water. A long plastic tube through which to drank the water is optional.

This remerkable survival gase was developed by two receives physiciats, Dr. Pay D. Jackson and Dr. Corralius H.M. We have of the thirded States New Conservation Laboratory mass Temp, Arisons. Dr. Jackson become interested in the survival idea while condecting field tests on a conservational solar will). If the hast of the same could evaporate salty or brackish water and make it drinkship, could it not do the same for water that Jackson hars was in the ground? Has first collector was like a bor with a loping plantic cover, but Dr. Van Bravyl thought of we save simpler idea.

"Why not", he said "just accop s hole is the ground, cover at with plastic and put a rock in the centre in the form of a come?".

Since them, the two eam have act up a comber of stills which have produced water in useful questites. Some locations yield more water than others. A site shows underlying rock, for instance, may soon run out of moistures. A natural depression or a dry ris ched are best. But even the most unlikely location - unless it's a perfect per parking lot - will produce soon water. The lowest yield the stills have produced is a little less than a paint day. A still is good soil has produced bouts quart a day for nor

There is a gradual decresse is output, but when one apot peters out, the still can be moved to a new site.

The soler still it operated by the sun's heat reising the temperature of the sir and soil under the plante, thus heatening apprising or fits east in the soil. When the sir under the plante becomes assurated while to hold on some wester vapour . The wappour condesses in this dropp on the undersurface of the plante - the plante being cooler than the deep sir under it. The drops was abonly down the alonging underside of the plantic and drip off into the bucket. This one small soile, is what happens in nature when saturated if it cooled at high skitted and condenses into Trandrops.

Because solar energy provides the heat for the atill, it might seem that darkness would half production. After sundown, however, the plantic cools rapidly, while the temperature of the soil remains high. So water vapour continues to condense on the undersurface of the plantic.

After developing their own technique, Jackson and van Bavel immrned of similar work in Japan,

An Engineer named Kobsysabi set up s box-like collector sade of metal and giass in Tokyo and collected about a quart of water s day per aquare yard of surface. On the volcams: claimed of Oshima, he acraped sway s few inches of surface ash and set up his collectors. They produced as much water there as they had in Tokyo. Eventually Kobayashi went to the Quetta Desert in Pakistan. The glass top of his collector got so hot he couldn't touch it, and no water was produced during the day. But at hight, the collector produced shoots a pint.

The basic nuterial for setting up your own sorrivel still are a fit x 6ft a sheet of clear plastic, a bucket (two to four-quart capacity), and shout 5ft of flaxible plastic tobing. You can do it without the plastic tubing, but at allows you to dright weter without removing the bucket from the hole.

The survival axills in the accompanying photographs use Tedlar plastic and "adherable" material made by du Poot and marketed as No. 100 BG-20. Because the plastic is slightly roughened, drops of actor clang to it better than they do to ordinary plastic. Than water acids to the plastic right down to the bottos and drops into the bucket, not onto the ground.

It is possible to roughon the nurface of other plastics with very fine and paper and lots of care. In a picch, any clear plastic will work to some axiant. Any container might be substituted for the bucket, although the wider the mouth, the more water it will catch.

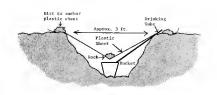
The hole for the still should be due in an unbaheded appt. It should be round and about three fast across. Maintain this dismater for a few inches down, and than alope the hole inwards, as shoun in the diagram. The hole should be deep anough an that the point of the plastic cone is about 78 inches below ground and clear of the top of the buckst.

Put the bucket at the hotton of the hole wish the drinking tube taped inside it. Bun the other and of the tube free, lay the plastic sheet over the hole and pile enough dirt around the edge to hold it securely. Use a first-size rock to weigh down the control of the plastic, shout two inches above the top of the bucket.

Ideally, there should be two or these inches of air space between the plastic cone and the serth, but this distance in not critical. Just make sure the plastic does not touch the earth snywhere and thus water water. Bon't let the plastic touch the bucket, either, or the water might run down the outside of the bucket.

Vapour should soon claud the underside of the plastic, and drops should begin to trickle down towards sho bucket. Don't expect to begin drinking water lemediately. Be patient, and you'll be rewarded. The least you should have in 24 hours in a pint. Chances are good there'll be a quart or more. Dr. Jackson points out, however, that a single survivel still may not provide enough water to keep one me as live indefinitely. But two stills should be enough. The water collected is distilled and may tante flat, but the distilled and make it safe to deriak.

In case of rais, the survival still acts as a catch basin and holds the water. Dr. Jackson reports soother possible homes: food, the water busket under the plastic attracts neakes and swall smissle, which crewl down the top surface of the plastic and than cao't climb back out. So for suybody howgry cough not to be acquested, the soler still may also provide a small.



FIRES

FIRES

INTRODUCTION

1. The importance of fire in Survival cannot be over-emphasized. You need fire for warmth, dry clothing and coaking.

TINDER, KINDLING AND FUEL

 s. <u>Tinder</u> is the sort of material that will ignite with a minimum of heat, i.e. apark atc. Some examples are:

> Cader Bark Birch Bark Fine wood shavings Dry straw

Sawdust Charred o

Charred cloth, and there are many more.

b. <u>Kindling</u> is larger fuel that will bring the burning point up to the necessary temperature for using larger fuel. Some examples are:

Small twigs Split wood Heavy cardboard.

 <u>Fuel</u> is the final stage end could be any large form of combustable material.

FIRE LIGHTING EQUIPMENT

There are many ways to light a fire, however, by for the most reliable is to use the maked fisme.

a. Matches should be conserved and kept dry at all times. They can be kapt dry by wrapping than in polythese, keeping them in a watertight container (such as a 35mm Kodak, or Ilford tim) or by covering them with a protective lawer of candle was.

b. <u>Ourning Gleas</u> - The war of a magnifying gleas, binocular lens, watch gleas, or an ordinary bottle can direct the heat from the sun to the tinder and set it alight. This method depends on there being sufficient sunlight.

c. Bow and drill method - This is more time consuming but is effective.

d. Flint and Steel or Two Flintstones - ff either of these two are rubbed vigorously together they can set a spark to tinder.

FIRE LIGHTING TECHNIQUES

By one of the shave methods set slight a small quantity of tinder.

b, Transfer this tinder, or build on top of it a pyranid of kindling. Increasing the size of the kindling as it outshes fire.

c. Finally add larger fuel as necessary.

- d. Build's reflector to reflect heat where you want at and also protect the fire from the wind. This reflector can be of green logs, large stones etc.
- N.B. DON'T amother fire by crushing kindling down with heavier fuel too early.

TYPES OF FIRES

5. a. Log or Stone Platform Fire

If the fire most be built on same, ice, or wet ground, build a solid platform of logs or stones and light the fire on top of this:

Disgram 1 - LOG PLATFORM



Diagram 2 - STONE PLATFORM



b. Pyramid Fire

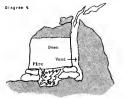
This type is used for drying out wood:

Diagram 3



Improvased Oven

To be made from old time or flat slabs of rock etc:

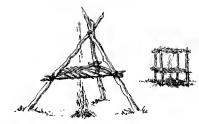


USEFUL RINTE

- 6. a. Fire must not be used in a careless manner. In a hostile area a fire or smoke from it may give your position away. A fire at might can be seen from a great distance and one in a parachute shelter whises like a beacon.
 - b. Use dry good as a smokeless [ue] shenever possible, unless a food smoking fire (pars 5d) is required.
 - c. Don't wante matches by trying to light a poorly prepared fire. Use embers for lighting eigeratts or candles, not valuable matches. Use a shaved stick as a taper shere possible.
 - Carry some dry tinder with you in a saterproof container.
 - e. Collect kindling, tinder and other uneful materials on your couts, you may need them later,
 - f. In keep s fire is overnight, if it is not required, cover the deeply glowing embers with askes and dry earth. The embers will still be anoutied; in the opening.
 - g. Remember that several small fixes in a line beside you, or in a circle around you, give more heat than one big one,
 - b. Baild up a good ampply of tinder and kindling fuel before you try and light a fire. It as dasheartening to have apent ten or fifteen numbers lighting the tinder only to find out that within mituits you have run out of feel. A good ampply of tinder must be available as nonsiderable amount of time is required by you to personally nurse the fire in the early distages.
 - When you are wat, cold and measurable, one hour spent harlding a shelter and a fire is worth many hours alsep.

Trench Fire cooking, roasting & baking





Smoke Tepee & Smoke House curing of fish & meat

135

PART 13

SHELTER

SHELTERS

*Thou shalt protect thy health and atrength in order that a ripe old aga shalt be yours"

FIFTH Commandment for Survivors in NZ Bush.

INTRODUCTION

Instally on escaper will probably have to alide Annaelf becaverds into a formation of the property of the prop

With the exception of snow shelters there is no set type of shelter for specific areas of the world. The seterials from which they are constructed will very depending upon geographical location. Marces in jumple it is quite easy to build as entire shelter using natural resources, at is a very different setter when you are on a base nountainade.

There is however a definite art in shelter building and this practic summarises the different exples of shelters. Speed of building with economy of affort can only come through practics.

The nated for a shelter at all he dictated by climatic conditions. As the condition is a condition of the co

MATERIALS

Natural resources will very and can be used according to availability, but the following items of equipment will save time and trouble:

Poncho/Groundsheet/Plastic - to make a roof. String/Card

Kaife, or some cutting instrument.

CONCEALMENTS

From the point of view of the evider, not only should shelters in exposed pleass be commonlinged, but all signs should be obliterated before leaving. Care must be taken in collecting externals for a shelter, no that fresh cuts can be shaden, and before moving on the shelter must be dismanifed and concealed, together with any refuse.

TYPES OF SHELTERS

Rocks

To protect egainst sum, mind, and low night temperatures in mountairous areas, including desert, above the tree line.

Sangar

Poncho roof to give shade during day, poncho to be used as blanket at night if not raining.



Tuef

Only used in areas devoid of sey other form of chelter. Steppes, plains, low grass-covered mountains such as Brecce Beacons. In its simplest form - s single well windbrest:

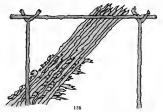


Trees and Bushes

These shelters in varying styles can be built in both Temperate woods and tropies jumples. In jongle it may be necessary to build a platform to keep off the ground:

. Leen-to

This is the simplest shelter and can be refined by the addition of wells, heat reflector, and floor, if time ellows:



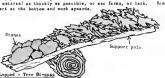
Leaf-Basha

Leafy boughs are bent over and tied to stakes. This frame is thickened up with other cat branches.



Low Shelter

Lay poles over a log to form a leas-to. Then thatch with lasfy plant material as thickly se possible, or see farms, or bark, to start at the bottom and work appards.



A small wastkarproof shelter may be quickly made from a small leafy tree. Partially out tyrough the trank about five feet from the ground and push the tree over so that its top is on the ground and the stem is etill fastened to the batt. Cat away the boaghs on the inside to use as thetching and break any upstanding branches on the outside so that thay hang down. Thatch the shelter with the boughs cut from the inside



e. Parachute

If available, as laght to carry and take up little space. Although not proof against rain, is mindproof and relatively showerproof if not touched when erected.

f. Parachute Tepee

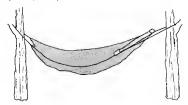
Suspend spex from overbenging brench or tie ever a sapling. g. Horizontel Tepes

Has the advantage of a reduced silouette.



Henmock

Although not a abeltar, is invaluable in jungle to keep off wat ground. Not difficult to make if sufficient cord is averlable. to eleap in except in tropics.



j. Poncho

Can be used on their owe to make shelters, or in conjunction with other meterials.



k. Snow Cave

Built into a drift or cornice. Door away from wind,



1. Igle

Blocks leid elantweys. Tunnel entrance sway from wind, Needs very cold compacted snow. Difficult to make without a snow showell of some sort.



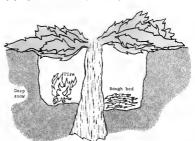
m. Snow Treach

For one man. Emsy to build, If smow is soft roof will have to be made from branches and possible.



TREE PIT

The natural depression in the snow at the base of the tree is deepened, Overhanging boughs can be thickened by interlacing with other branches.



PRIMITIVE MEDICINE

PART 14

PRIMITIVE MEDICINE

PART f

 QRJECTIVE: To provide the shortest possible course on Primitive medicine in a Survival Situation,

PART f1

A. INTRODUCTION: This article he hased upon Br. Las's personal experience and first hand observetions in Kores. Major Gene M. Les, United States Aray doctor, is very often queted in USAF Survivel Training School Inctures.

You say not remember the greater portion of this setticle helf on hour ofter you read it, but, if you are on the ground shatind encey lines or even in a desclete area of friendly territory, some of this will some back to you, if it helps save the life of arms one may, then this article still have been well worth the affort on our part to reproduce it for dissemination to the affortene sampled to this will not the affort on our part.

PRIMITIVE MEDICINE By Dr. Gene N. Lon

"You must learn besis first sid - what to do for fractures, cuts, burns to figure go done, you are supposed to have all kinds of thinge sits how a survivel kit, a first sid kit, and printed instructions about using them. Lat's assume, however, that you lead with only the sistakes on your best - it happened just that may to lote of men in Kores. You them must know how to get slong with what you have; it each do

God gave you two important things - your head and your hands. If you think and intelligently use shot you have, you can take care of yourself.

That's why [helieve everyone should be taught to survive under the worst possible circumstances. Then if he is in a less attentions cituation be can get long sell; if he hee side for outwire!, they're as ouch grayy.

B. SIMPYAL FIRST All: Then you have first said and study survival moddeins, you must assense that there all be no one but you to practice it. In survival and creates there probably will not be asyone size except purhaps non form your own etcs. All any destree captured with a ware put in one PS comp. but for USAF destors are opt to be captured only on any be in a comp of only Air Fares priseners. To make us there or triend modell exposure your probable statement you want to be a support of the captured only Air Fares priseners. To make us there or triend modell exposure you

When most of these observations were made, there were five doctors in the eamp with ms. Thanks to sell of them - inseluding the three who leter died · I cen cell you these things, not as my own implated findings, but an our group opinions.

our group opinions.

Immusization helps, don't svoid shots, You can save your life by keeping your immunization record sp-to-date. No san dird in Nores of any disasse

ing your assentiation record ap-to-date. As see dies in horse or any dissection which the record certains give immunisation shots,

C. NOT ADVANCES SCIENCE - BASIC PRINCIPLES:

Control and the control and t

Christ. They are stilf good to-day when so other means are available. It's amazing, but man can and doss live without penscullin for every sche or pain.

D. <u>MEGARDLESS OF MILT IT IS - EAT IT</u>: One basic principle of snrvawl method is to est. After you have been down a few hours, you get hangry. If you can, find something edible and eat it. If you are captured, someone soon will bring in a backet of alop well, after your atomach has flipped from the sight and smell of it, you man, if car'd for won't is at that toff,

You'd better eat it because that's afl you'll get and it may get proyear you'll get and it may get pro-'1'll sat owrything they give ma and the soortishment will help me to get through." You must eat everything you can get - issued rations, things you can steel, things you procure from the environment.

We ste dogs, cate, rate, wards, maggets. For a while we got only ground field corp, boiled for half hour. It is testelase but it will keep you alive. In fect, we were living it up when we got that core mach,

Most PWs in Korse are dog bet it was hard to do. Dogs are s delicacy in that area and we weren't issued lexury items, but once in a while a stray could be sheeghaid. The tows we were in had a atray cat. Pussy didn't wander long. It was quate delicious, rather like aquirral.

It helps not to be able to identify a etrange dish the first time its arred but after the first time, the ingredients don't really bother, It was difficult to down rate but they were adults. I attractive tecomes

It was difficult to down rate but they were adible. I atrongly racommend cooking them because raw they can carry saverel discuss.

Snakes, of course, are estem the world over and some varieties are delicious. Just chop of the head, skim the rest, cook, then est what's left, Even posenous varieties ere adible.

Maggots are something else. Once we were issued rotten fish loaded with ground over English coak protested and wanted to acrape them off. Afraid that some of the fish would be lost, I insisted that he cook fish, maggots and all. We see the results, which were really quite good.

In May 1951, every PF in ones was availed like a balloon from severa beriatra. herea spring would were beginning to appear, we figured we could bell thom as a cure but there wasn't a weed in casp. However, some of us were cakes almost actally to a liver for wood and other supplies. The criterion for the didn't know what kinds of weeds they were, but we picked them, builed than and att than. Our beriadroid disappeared.

You will be revolted by food given yoe as a PW, but if you make one smal as a prisoner it will take you weeks to regular your loat strength. You one's afford to miss a single bits when you are on a bare smbsistence diet. If you're going to live, wat. If you plan to eacape, you must have the strength to do it.

E. YOMR METHER TICKET - NORSHERE Town two feet are the other half of the round-trip ticket. The importance of caring for your feet cannot be over-emphasized. Men walked barefoot for miles over spew and toe when the Koreen walker was 45 to 50 degrees below zero. Those who took proper precentions got neither treach foot or freams feet.

The pretantions are simple. If you have shoes and mocks, periodically take them off and rob your fest for five to ten minutes. You won't get frost-bits.

If you have two pairs of mocks, pat one pair ext to your skin to keep it dry. Change to the dry pair at least once a day. When you bed down at night, take your shome off. Any men who gets fronthite is guilty of neglect smouthing to miscondwet.

In order to lend safely efter ballons, to walk and protect your feet, you must have proper hoots. Those men who landed in North Koree with loweuts will beek ne up on this.

Incidentally, if you remove the stael erch support that is in most boots, and charpen it on a rock, you mill have so excellent surgice! knife.

F. MISNIEM! Dynastery becames prablem is aneay territory to nost men, whe they evedere or prisoners af wer. The rish af dynastery can be greatly lessoned if you have and properly ass helmana tablata or indees, or if you believe to the there will be times about you cannot possibly take such precedings. Also, sen have getten dynastery from mathing nors than just being exceed.

What is dysentery? In our camp we set up on arbitrary standard: 25 stools per day. Eight to ten was normal and 15 was morely simple distribute.

What can you do shout dysantary? You will lear water which you must replace, if possible, replace it with heiled water, but at any cost drink quantities of liquids. You slee must sat, wen if that means choking down food.

Chercoal can help. Take any partially burned piece of wood, acrape off the cherced portions and swellow them. Now much? Oh, about a handful.

Bones - any kind of bones - cen help. They ere best if borned and ground into sah, but you can grind bones between rocke to a powder, just availow the powder.

The Communicts, anxious to 'educate' every prisoner of var, usually have lots of that around for writing on the 'evoders' of Bolshevram. Steal some ordinary school race chalk, peader it and awailor it. It, too, will help oure dynamics.

Pull bark from trace, praferably sek trace, but any kind will do. Beal is from tenles hours to threa days. As the water exporate, add none. The resulting bree will be no bleek, no vile teating and so evil smelling, that it will shoke you. But holled dark contains tennic seld and that sill help to cure your dynastery. It also can help further the having of burns. Boiled both is so terrible to check down that we ware narear really ware whicher people both is so terrible to only one that the cure was worse and the cure was worse to the cure that the cure was worse made and the cure was worse and the cure was worse to the cure that the cure was worse made and the cure was worse to the cure that the cure was worse and the cure that the cure was worse and the cure that the cure was worse and the cure that the cure was worse to be a support to the cure of the trace of the cure of

Tex is another dysentery cure because it, toe, contains tannin. Men who'd had chroate dysentery for two or three years were cared when we got anough tea. Strong ine solutions which costein tensic and in concentration, have also been need for centuries for harms.

G. HEPATITIS: In the enmer of 1951, when the Communists talked mildly about bacteriological warfers, we laughed it off as impossible. We still joked about it when they immorelated as against this redicalous 'threat'. There was a bottle of Soviet-made serum, one syrings and one dull needle for 110 PWs. The first wan in kine bad hapatitis. Within a week 35 others had it.

Bepatits, or yellow jaundice, is a liver disease. Then you have it, on and to est but you must. We force-fed men to keep them slive - pushing rice or anything also available down their protecting throats. We also tried to keep them off duty as meeb as possible for about aix weeks after the sendace that subsided.

The loss of appetite from this discass is terrible. I know because I had bepatite twice. The other doctors kept me alive by force-fracings. At the time it was rugged and I hated them for it - bet to-day, needless to say. I em crattful.

H. LICE: As a prisoner of wer you will get to know many representatives of the anisal kingdom, song them, the loses. The sax-legged insect can kill you. There are sono 50,000 et's of blood in the body of a normal and of average size. A single losse sacks one se of blood d day. A losse covered sea sono days.

In Korse no PM died of any lause-borne disasse. I eredat this to immunitation, Do keep your short espectuation. However, lice can bleed you to death unless you pith them off every single day. Never faul to do this even though you are cold, tirms do sick, whether you are a PW or an eveder.

One PW complained of being week end tired. In our makeshift hospital, on the equally makeshift morgam, I unbuttoned his jecket and shirt and pulled up his undershirt. He was a meas of soving grey bodies. Lice were so thick that I could not see his skin. That men wee literally being bled to death.

You wost pick lice off frequently, for they bread faster than rebbits, Regardless of how rould it is, you must imappet your entire body sed every seas of every germent at least mose a day, picking off nearly angle loue. Loue hunting does more than just have pick bug from killing you. It not only provides diversion and materialment of a cort, it also keeps you busy. Purposeful occupation is important beyond measure if you er an avader or a PNA

J. NORMS: Yes will get sorme - all kinde, round, hook end tene vorms. They will one from the food you sat end the dirt end filth where you live, Some will look exectly like engle worms first times emlerged. Although there are other symptome, possive proof these you are infested in whose worm crawle out of your note. That undownkedly will aboke you up a bit. It slawyed does,

Personal hygiene is the best preventive measure egainst persoltic infestetame. You may not be really clean from the day you do down until you get out, but there are things you must try to do. Wesh your body and elothes ee often end se well se you can. And shown all, pack lace off at least daily.

Depending upon anpplies, there is a worm remedy: Swellow a couple of tablespoons of keroesen or geselline. Kernesens are some effective but gasoline will do. fisher will make you s bit each, bet will make the worms a lot sicker.

K. PMEMONIA: You will encounter diseases and your resistance to them will be low. Pheumonia te probably the most common, capecially uniner and it makes you extremely arch. You will have no penticilin, no terranyons, not even old fashioned earlie. (In Mores I bed 250 smifsmilmide tablets for more then 2,000 each.)

When a man has preymanois in primitive circumstances, there is only one thing you can do for him, even though it is not in may medical book - keep him on hie feet. You should not keep a sick man on hir feet 24 hours a day, but don't let him his in a corost, pull something over him head, and roll over to face the wall. If he does this, he will die. You must keep him alert and interested, or he will oot live.

Some men with severe cases of pneumonis lived because of this treatment and their own will. Others with had ended got frightened, laid down, gave np, and died within 24 hours.

L. <u>RESEDING</u>: Here I went to make a place; If you are bleeding, DO NOT put on a tourniquet. I believe more men lest erms end legs as a result of tourniquet it han from eny case type of wer round. A tourniquet destroys tissue, gangrene sate is, and it is often impossible to save the injured nember.

Just apply beavy, constant pressure - that alone will stop 99% of all bleeding. If blood is spurting out, stich year finger down on the wound and hold it there.

M. BURNS: Suppose you are burned. The bank ways to weak nut the burned area and to cover it with a tentile dressing. Must, you sail, one you weak it with when there is no water or some that can pres in the dark as aterile? Well, avery and has his even sepply of one of the most scritical liquide you can find - his own urine. This is just one of the small bits of knowledge you may be able to put to good sex. Trying it under natures with continuous will not hart you and any save your life. As you reed earlier, tensis stick is good for the solution. The dynature. There is tunnine said in a trong boiled both out

N. THE WATER CURE: Hot water probably seved the lives of more prisoners of war in Kores than any other maseure at remedy. We used hot water to treat man with overwithing from headaches to stables's foot.

For a while one came in and gave an long lists of symptome, before sching 'That do you suggest'. Our prescription was sensily 'Go soch it in hot water.' After a while they bogen to say, 'Doe, I've get this and so. Now I know you're going to tell me to go sock it in hot water, but I just went you to have shown the anyway."

Maybe hot seter didn't help in avery case, but seaking kept the patient buy daing something that recomed reconsable and purposed; i. A nam who sin for two or three hours souking a toe are hand, usuelly deem't deall on his unfortunate eigentienties. He's toe heavy thinking about the cure he's effecting, or how much better his toe ar hand feels. (For staumeh athes, we night use a veriation! Hest o brick and may tim a wear time.)

O. WOMNE AND SURECRY: There are three treatments for e nound under extreme conditions: Clean it out if possible with but water, weah it out with urne, and/or pick out oll fareign auttor. The bosh says never to slick your fingers in a wound. If you have nothing also sad if there are pieces of metal or bits of clathing in the wound, puch or sig then set with your finger.

Maggate were an accepted treatment for infected wounds during World Har I.

Maggate est only dead tissue and will clean out a wound better than enything
clea except eargery. How, you sak, dat I get half af neggate? That's casy
if you are anywhere in Amin - just expose the wound. The neggate will find
it.

If surgery of any kind is required, remember that the area of a wound is dead. When you realize there is no feeling in a wound, it is easier for you to etick a needle into it, to cat, or to do whatever else is necessary.

(We had to amputete a few toes as a result of fromthite. For the first six moothe, we had a little other, but later there was no enesthetic.)

You may never have to use a haife to lence boils, cyets and the lihe; but, if you do soah the area in hot water for a couple of deys and then if it is still necessary, open it up.

A most successful kemorrhoidectomy was performed in our cemp. A major had a terrible hemorrhoid that bethered his dreaffully. He lapped around for days, sooting in hot water as often as peaalble. When the condition failed travely college greated with a labipped out my treaty surgeral hand, patiently sharpeand to a resort's edge on atomas but originally a steel arch support from a boot. Out came the offending hemorrhoid despite the patient's belignerant acreams and prefena thrusts. The operation were greater conformal. The patient was only lived a belief in considerably greater conformal.

P. MEDICAL SUMMANY: Yaw, of course, have all the base; fire; and the Arr Force has exposed you to. And, of course if possible, you will have with you a standard first aid hit, as well as your own special one. (Having such hit is a real luxury). Is addition you must face the possibility or even probability that emergency treatment may actual far beyond those normally covered by paractine 21 first aid. You must also face the vary real probability that you may be the only person swellable to perform such treatments. Under worth oir remarkment, you must are what Cod gave you: Your head and your heads.

Man with chest wounds - open, auching wounds - have stuffed then with handscracked for corn shirts and kept going. Men have broken their bucks when they builed out or hit the ground. After regaining concisionesse, they have rolled excend for a stick or board, attrapped it to them in a fashion and moved on. Hen with severe wounds have sequetated a limb, whitled a crutch, and kept going. Many things are possible to those with will and datermination.

Q. THEFT: In a prisoner of wer camp you lears not only to scrounge but slao to ateal proficiently. When I got back to the States, it took me a long time to learn to heap my head is my pockets when I walked through dume ectore.

Sometime you ateal because an object is useful to you. More often you ateal thinge you know you can't mas. We figured that everything cost the Communiste money or afforts, so that we made additional money or effort macausery when we atole any tiem. Also, thievery built us our morals.

One shieted mas in our casp was a professional this of who perfected his calling at the Communities aspensa. The Chinace casp commander eventually became as sarraged that he called in our man. When the PP returned, we were currous about with held happened. He explained that he stood suiffly at the communities of the substitute that the communities of th

In the camp known as "Death Willay", we stole a complete building. The Communitate had let us build a little hospital, had given as two 55 gallon draws for a stove, but wouldn't give us any wood for it. Rearby there was a wooden building, with much plaser on the outside. Over a period of two weeks, we surseptitiously took board after board from that building satil only weeks, we surseptitiously took board after board from that building satil only the thin plaster shell remained. Dee sight we finally knocked that down, the building was got for two weeks, and by the we had became the evidence in the hospital shared the cytomics in

I was called in for questioning me to what had happened to the people's building. I could only reply that thore was so such building. When they looked at the place where the building had been, there was only a bare apot, How could they accuse us of stealing a building? It was too ridicalous!

You may occasionally get caught in such thafts, but usually it's worth it. Through such activities you can pay the comey back for bus haranson. Sometimes your thefts may own causes your captors to come burnaming activities. In any awort, you have a lot of fine wantering age.

R. <u>REPA SENSE OF NUMOUR</u>. Humour in important in a princer of war camp. Even though averything around you is tragic, you want length to mustain your will to survive. You have to consciouely work to retain a sense of humour, a same of the riductions. If the Commentate tic you up for some remean, you must be able to find humour is the fact that you can tie better knott then two or three of them are doing.

I setuelly laughed at men dying. There were approximation could exceed without being suble to describe them: a limitenesses, a look, turning from reality. When there approxe appeared in various degrees and varying combinations, you could extinate very clouely he long a particular man you had actions, you could extinate very clouely he long a particular man you had been considered to the contract of the country of the count

We used our seess of humour rather offestively in a pervented out of counter-harmonench. Americans are the near superdictable people in the world - and methodical types like the Chinese Communicate are unarrang when they could not anticipate which ne would do not be necessarily disk by deliberately noving along in one direction for a will and then without worning make a complete 180.

Such activities asemed to us our little contribution to the ner effort, that we had a mission of some sert. Our PW casp was nor 'front' a small but active eras of combat. Although we had no orthodox wespons, we inflicted shat no could to the enemy we accountered.

Some casps had one guard for every two or three prisoners. Primarily because they couldn't figure as out eor anticipate our actions, we had two guards for every PW. A small contribution to the total was effort? Perhaps, but it gave us a same of accomplishment and it did the up a number of Chinese.

It's hard to say which me najoyed more, our pleasure to a prank for our own asks or the confession are could create by it. For example, the commiss had a 50-foot pole lying on the ground, rendy in the raised as a flag. We table the pole aseed it up and harmed it. One PW got 30 days solitary for it but, offer all is oneshooy had to be pursished and the antic was well worth it.

Bight in the midst of the big gere nerface compaign, we caught rat. The rat equivard a parachuse and sIMAT tag before being home on so bush by the front gats. The chief commisser, dainty sary fairy type found it. He jusped four feet in the arz, did there double Lips and reced bystercally but to his headquarters. Then the officials came to kevestigate, and to that present the chief files of "pmf" shout betterfological workers. We reserve with glass, to their complete confusion. That apond had us laughing for weeks and useh laughing the pure size of the confusion of the chief the confusion.

One FW calmly walked up tn a geard, accked him is the noise, grabbed his gun, tossed it over the fouce isto a rice paddy, and just as calmly walked www, lt was merve)lows because the goard could do nothing without ranking consistent house! f. lo every group there are characters. Look for them and encourage then to drawn up studys to make the group laugh and to confuse your captors.

S. SUMMARY: Your chances of earwival use be estremely good, even as a prisoner of war, if you do these things:

- 1. Exercise your leadership responsibilities.
- Meintein militery end salf-discipline.
 - Keep up your oan end others' morale.
- 4. Recognise sod control feer.
- 5. Keep oo your feet, keep going.
- 6. Est everything you can get held of.
- 7. Neurish your sense of humeer.
- 8. Keep your immunization op-to-date.
- Prectise survivel self-sid end prevective medicine, using common sense end your surreuedings.
- 10. Keep up your will to survive.

Training, such as is given at the USAF Survival Training School, helps transmodusly. It especially helps you over the first shook of bung an erader of a pracener. Fow should lears shot the passibilities are and face them. You want meater the heaving face should learn a heaving assuration, according to the should learn the should be added to t

However, of all the things I've discussed, some is as important as your own will to survive. Regardless of ahere yes are, how miserable your circumstances, what the ensey does to you, MAR UP YOUR MIND THAT TOW WILL THE THINGUE IT. When had this one idea sed they kept it despite everything: "I'm going to live!"